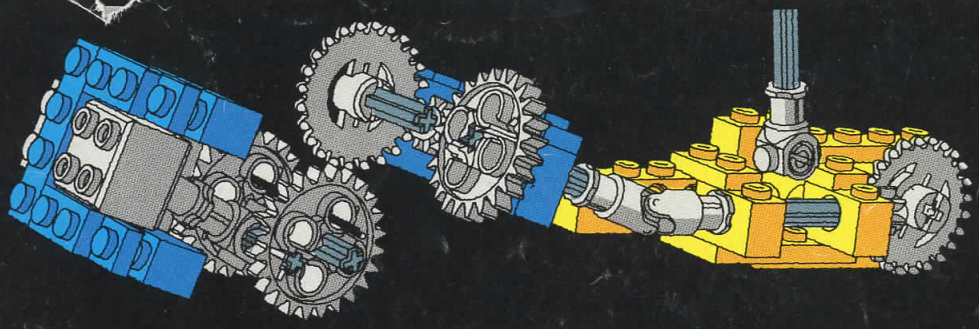

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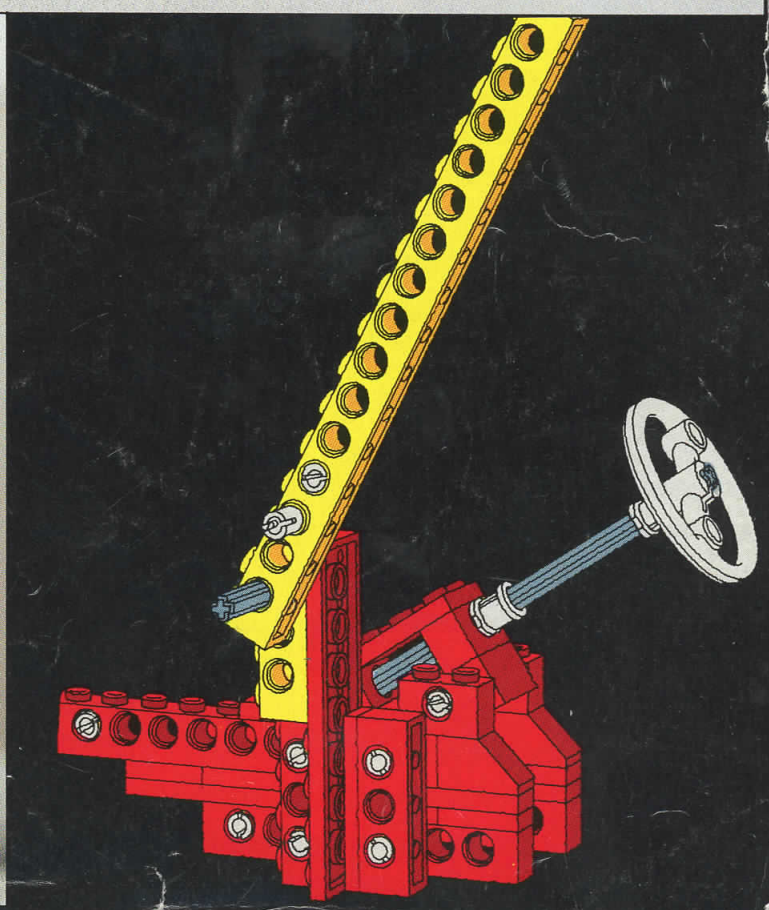

# Congratulations, Expert!

## Welcome to the new LEGO® Expert Builder Series.

Remember when you first started building with LEGO Brand Building Bricks? You learned how to build backwards and forwards, to build bigger and more complicated constructions, using your own rich imagination to create new designs. Now you've graduated, and we want to reward your interest and hours of hard work with a new series of building sets so detailed, so fascinating, so challenging - only a LEGO expert like you is ready to tackle them.

To prove that this new LEGO product isn't kidstuff - take a look at what's available in this set as well as the other sets in the series. Realistic elements such as pistons, gear wheels, universal joints and more will allow you to create exciting models that closely resemble the real world. With Expert Builder Sets, you can discover for yourself the operating principles of such things as car engines, steering mechanisms and helicopters. You'll find the building challenging but satisfying too!

## The Expert Builder Instruction Book.

The instructions in this book will allow you to build the main model featured as well as other Expert Builder alternatives.

The first portion of this book shows how the special pieces contained in this set and other Expert Builder Sets work together to demonstrate basic principles such as gear ratios and steering mechanisms. The middle portion provides you with detailed instructions for the main and alternative models. This is followed by illustrations and photographs of other models which can be built using a combination of elements from this and other Expert Builder Sets.

Now that you're ready for the challenge of the Expert Builder Series, we hope that you find it satisfying - but fun too!

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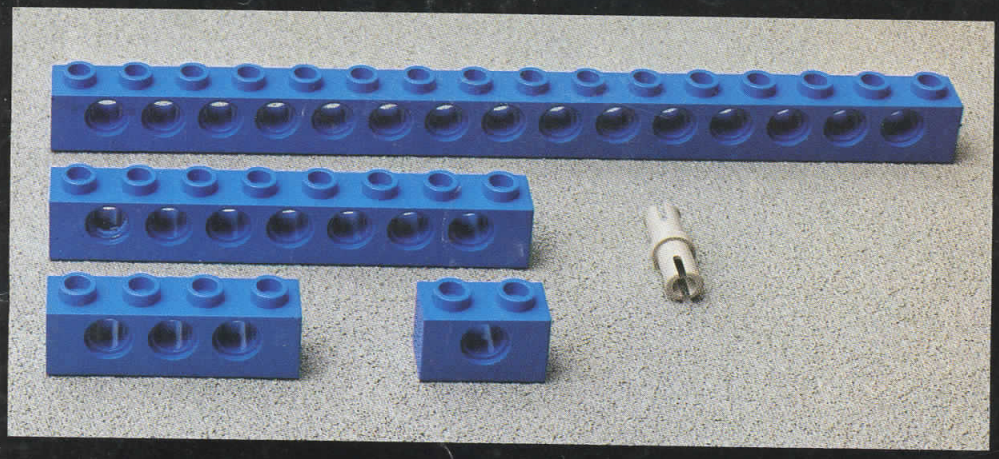

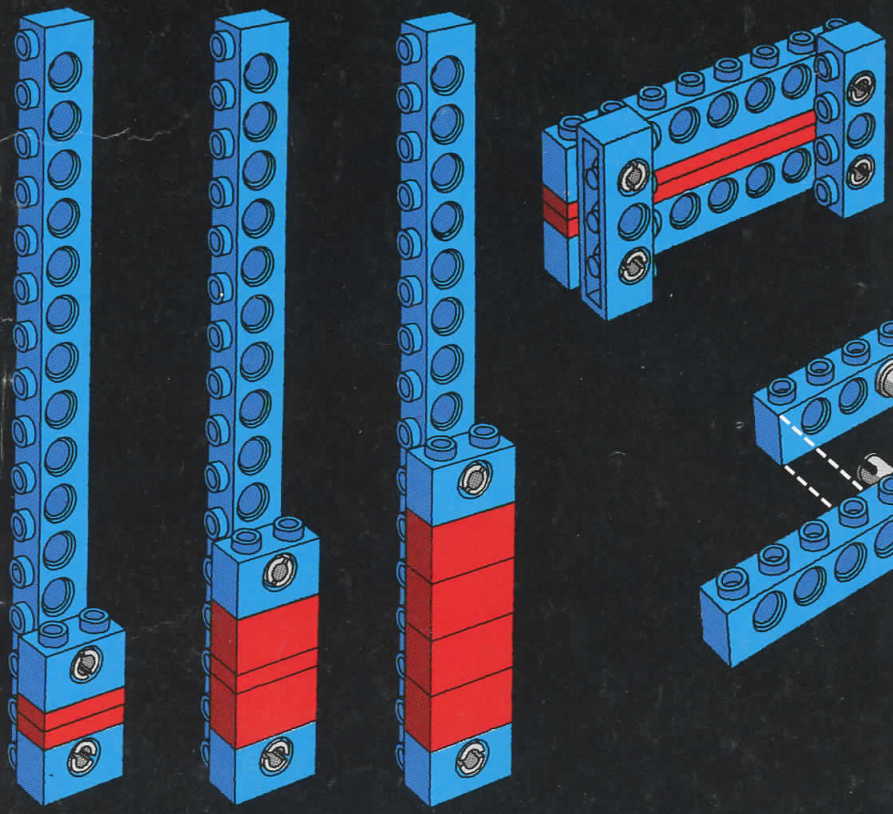



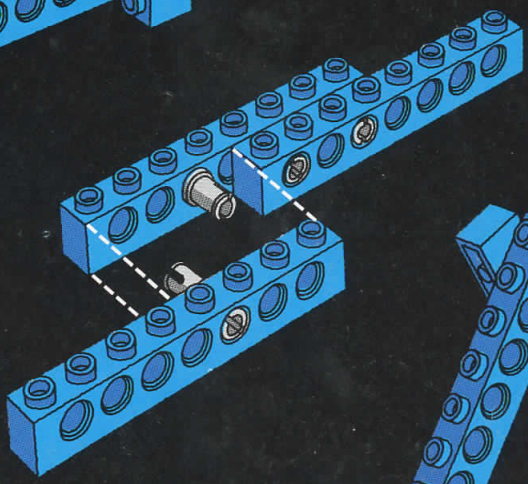

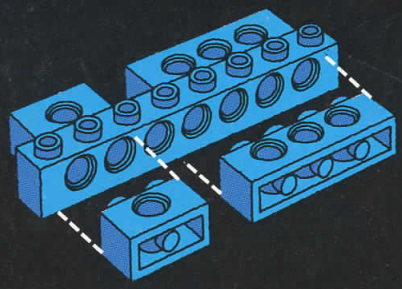

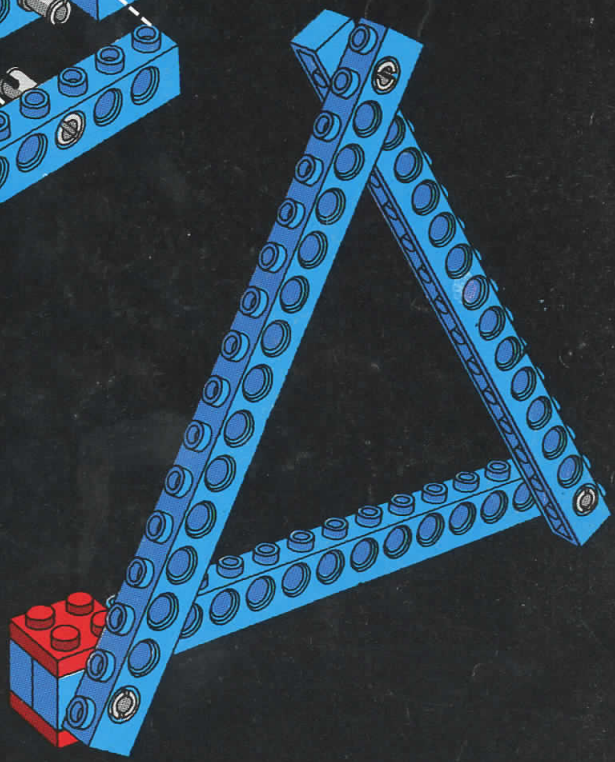

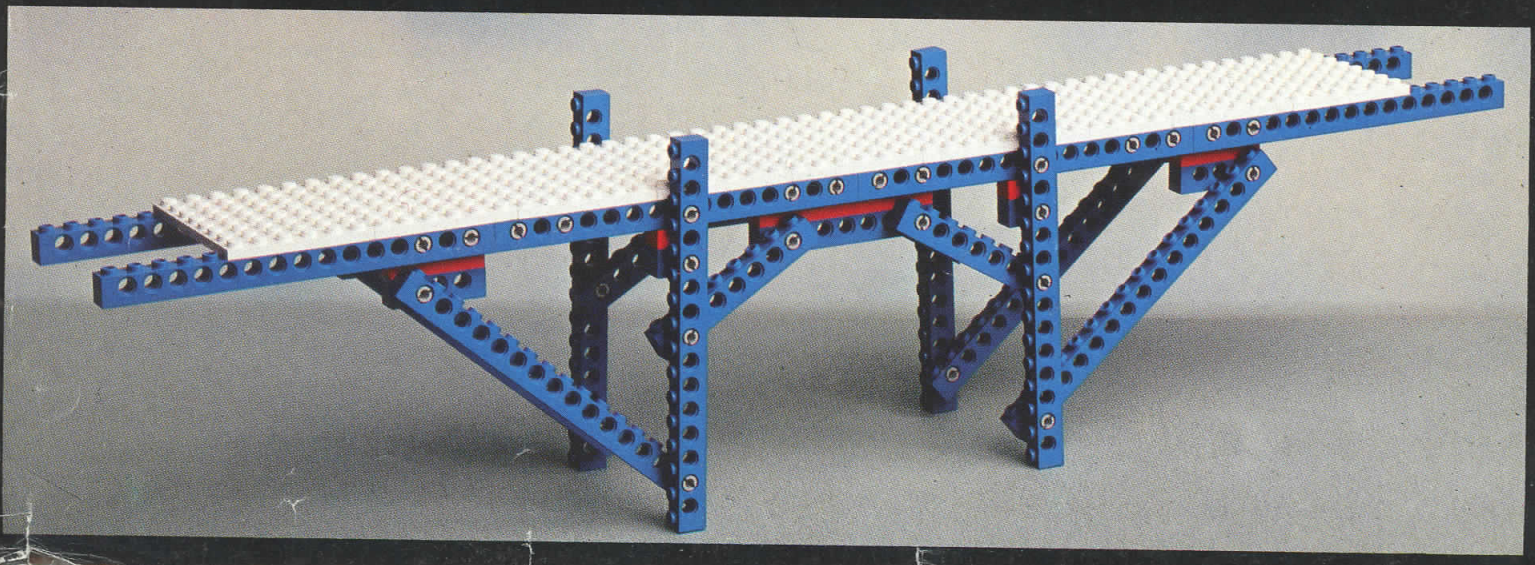

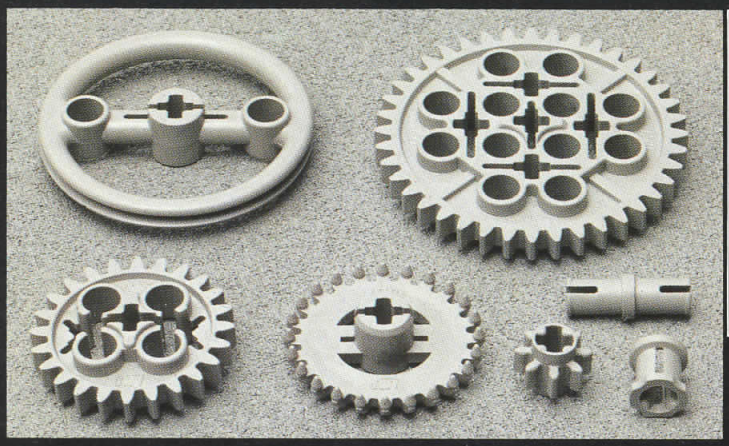

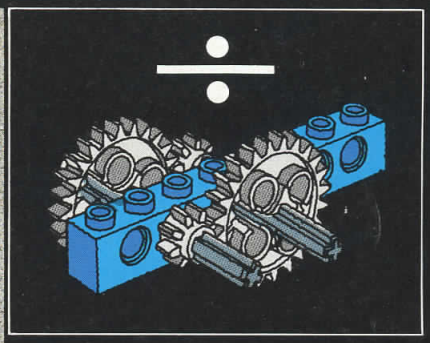

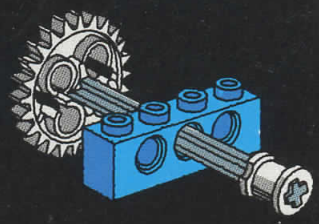

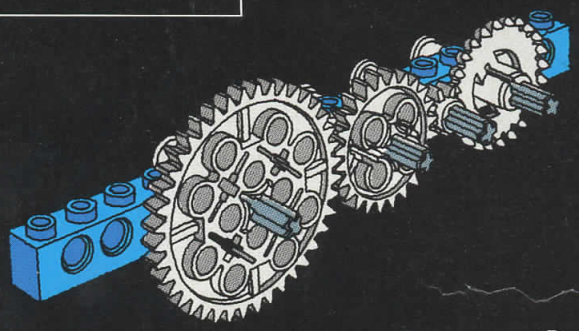

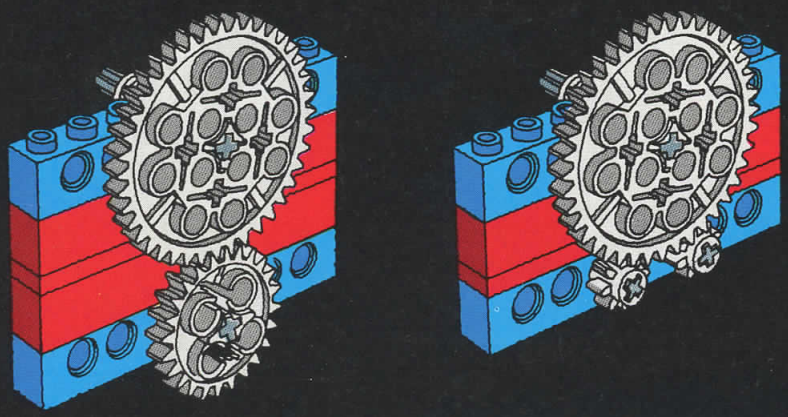

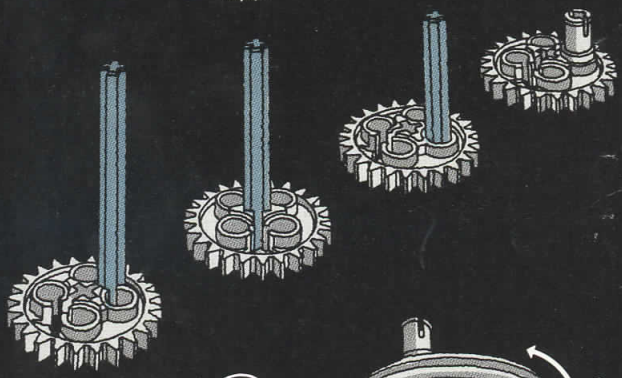

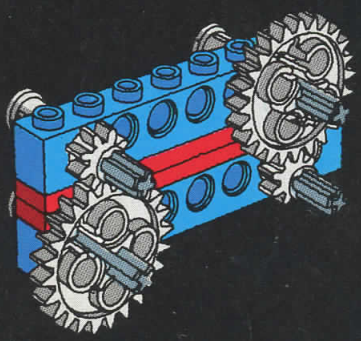

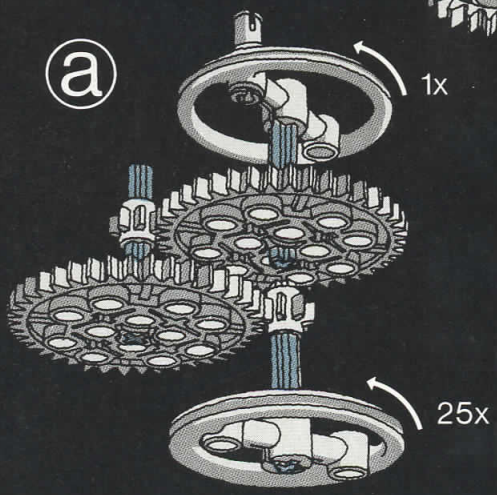
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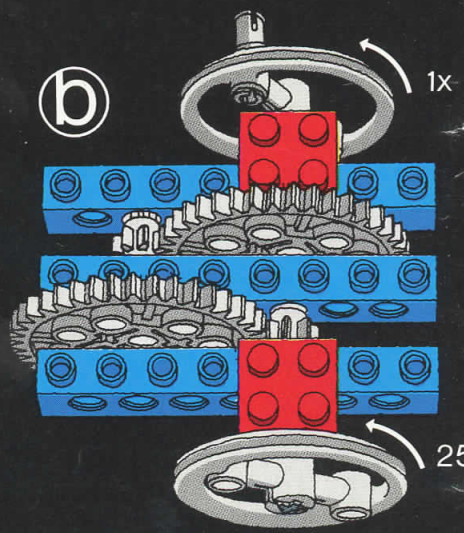
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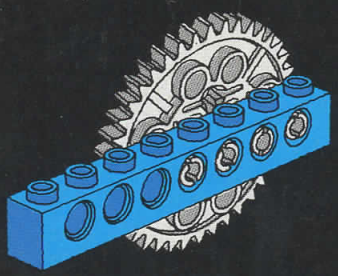

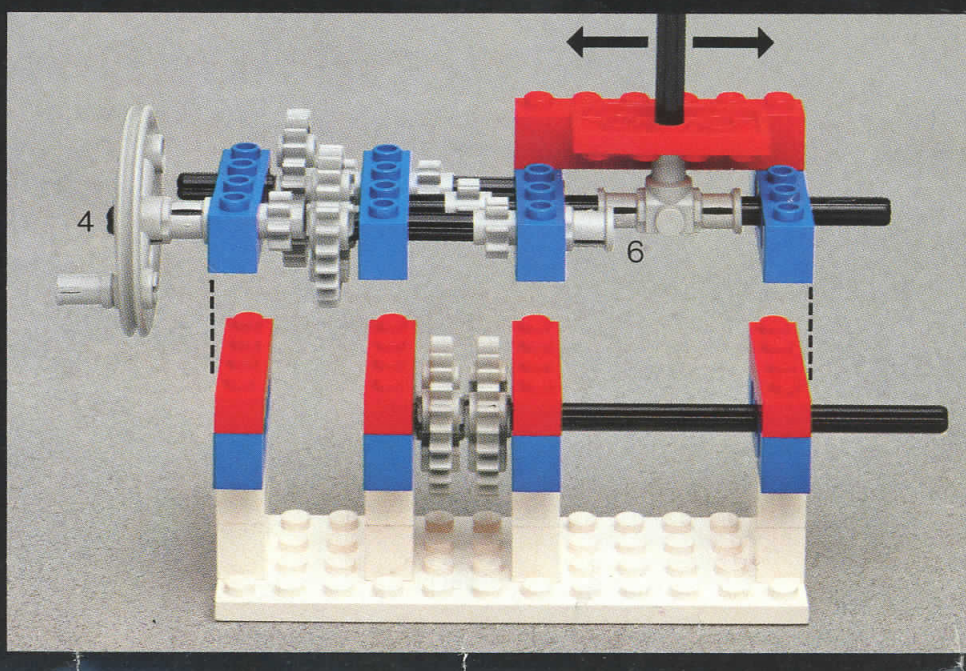
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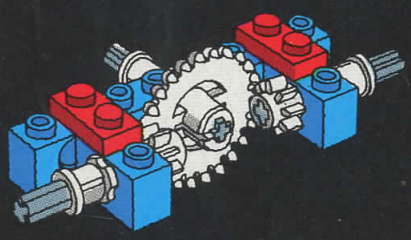

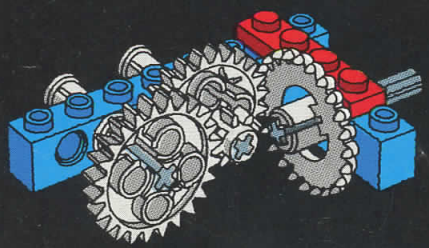

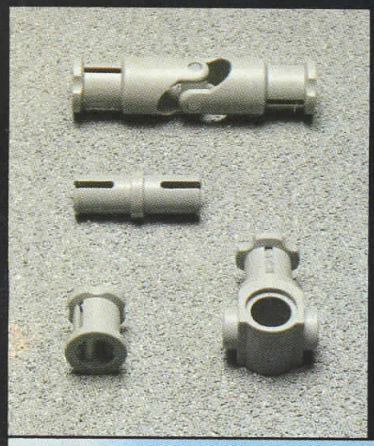

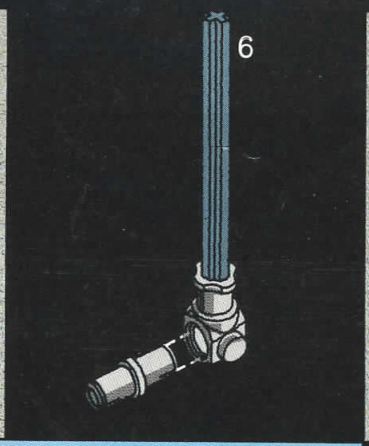
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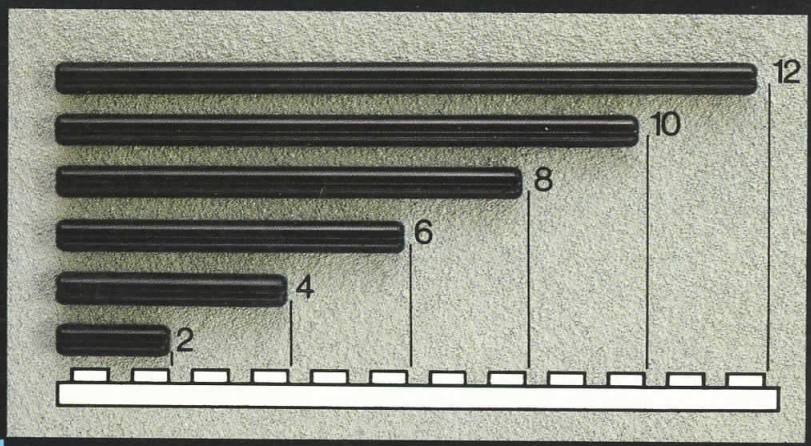
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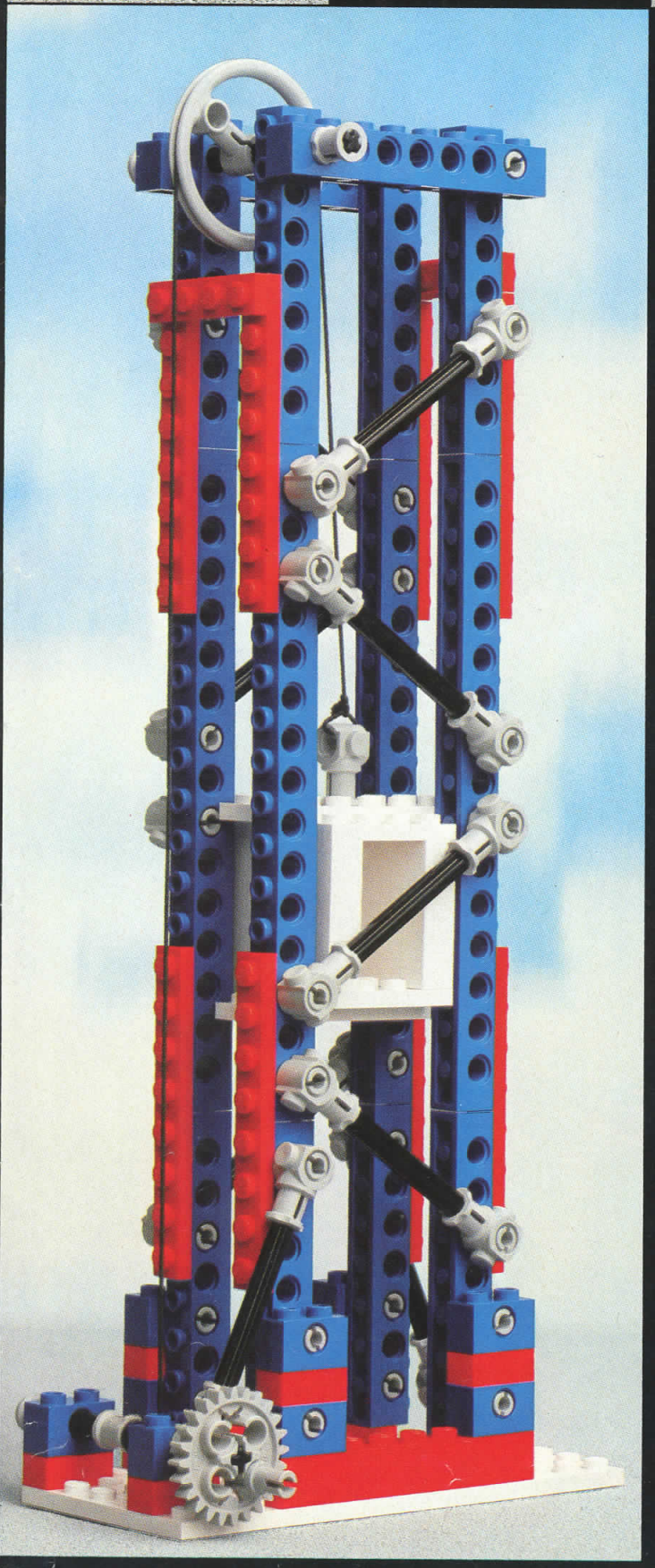

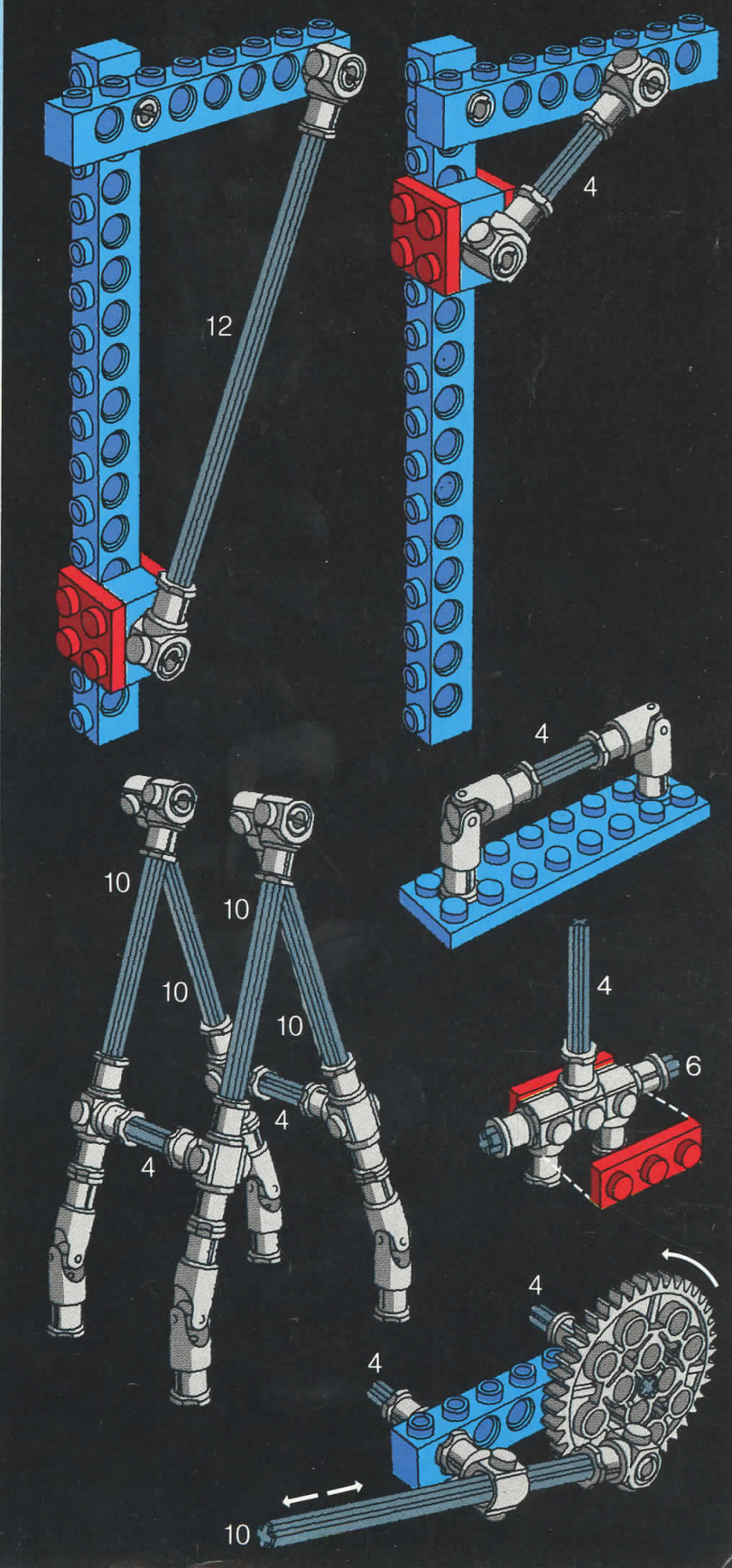
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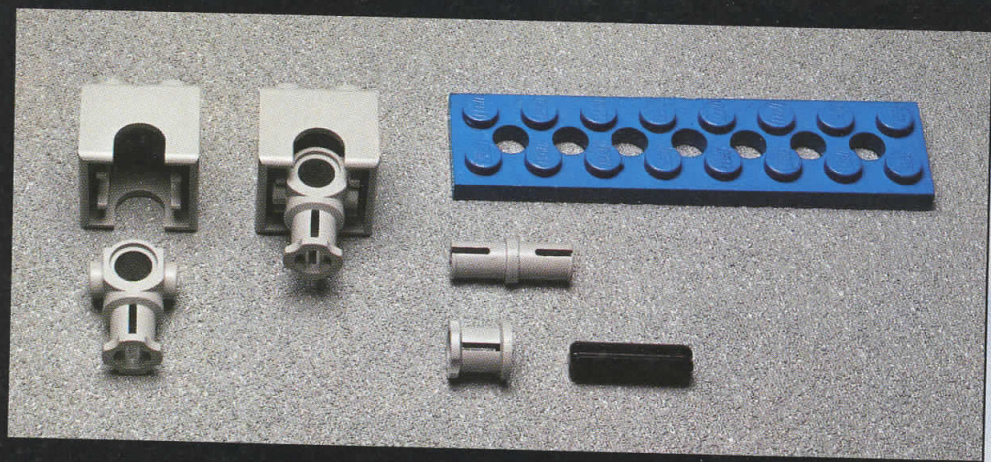

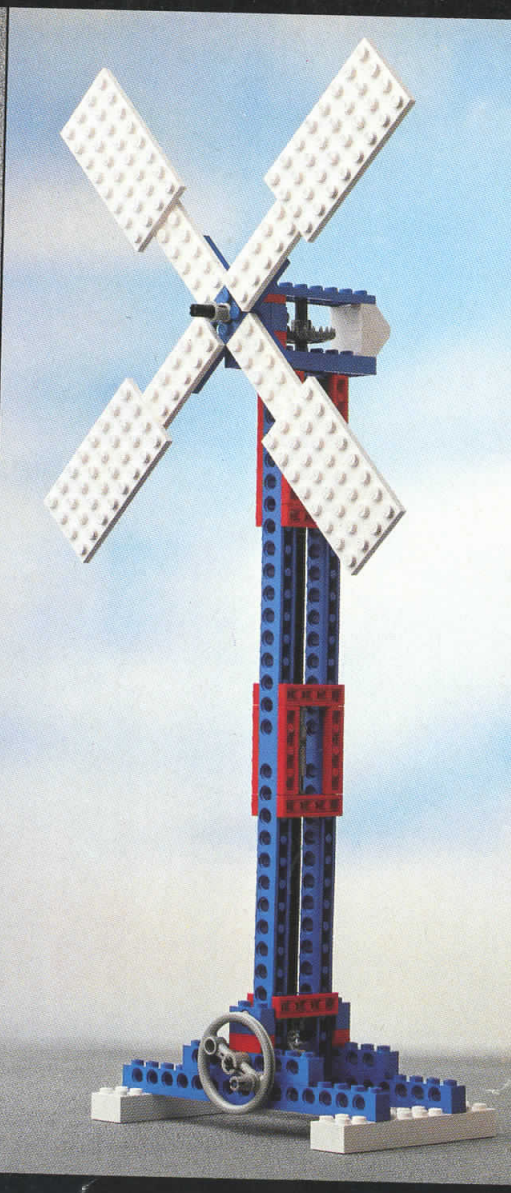

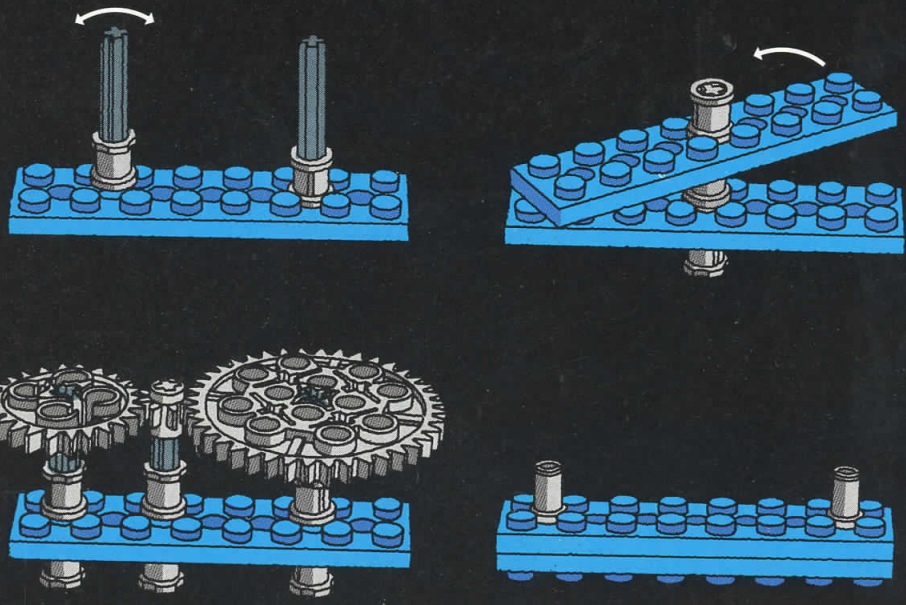

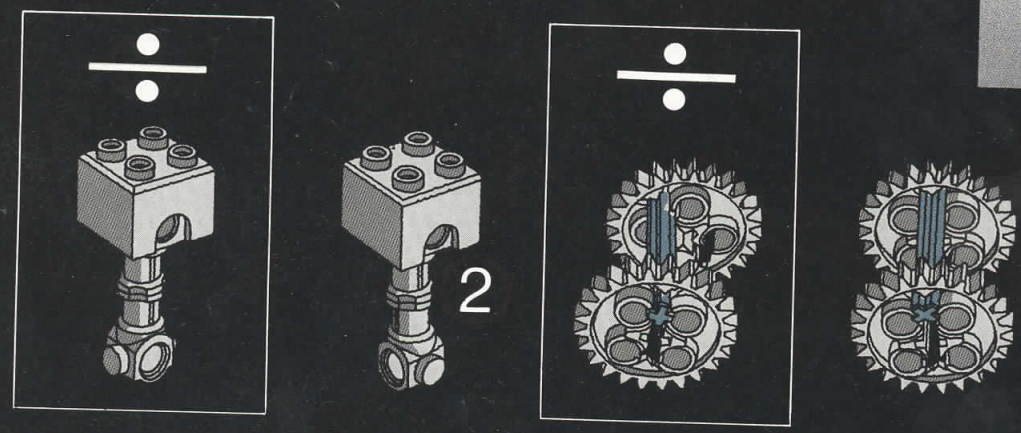


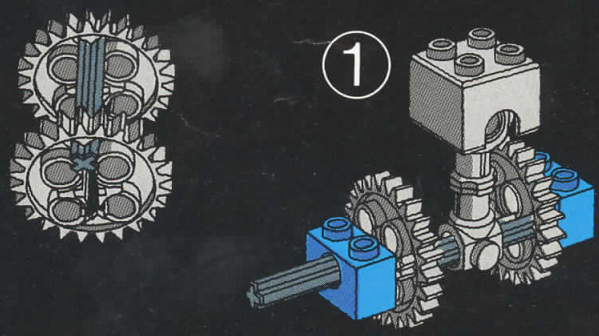


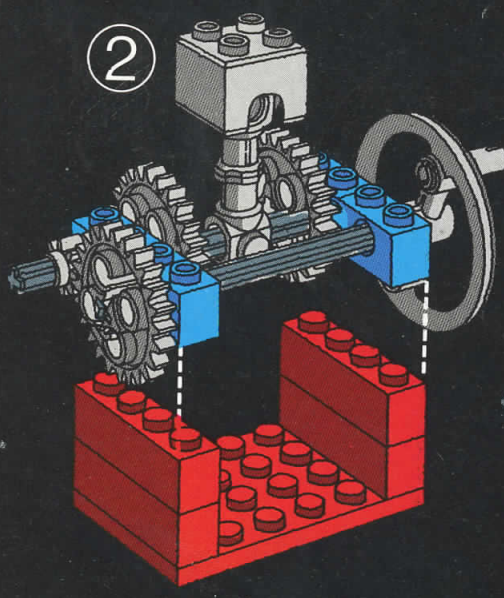


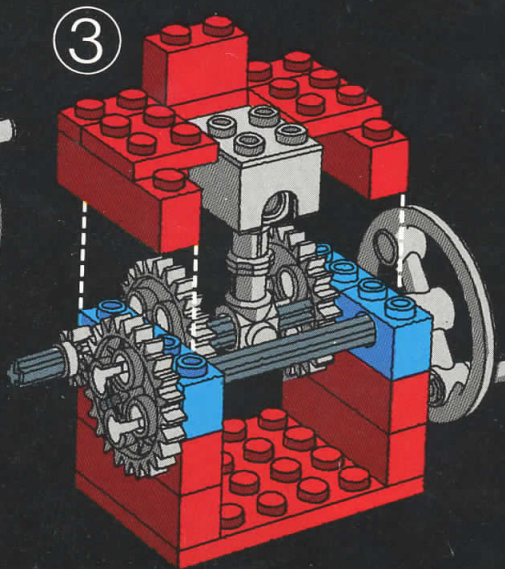


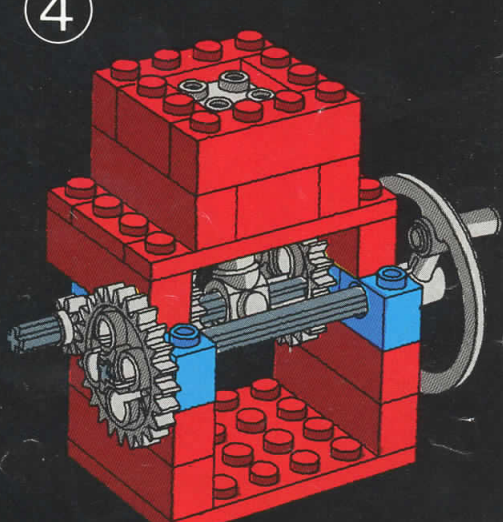


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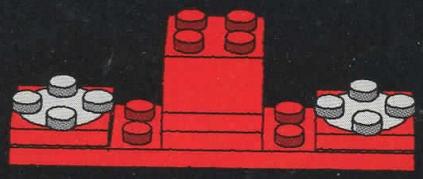

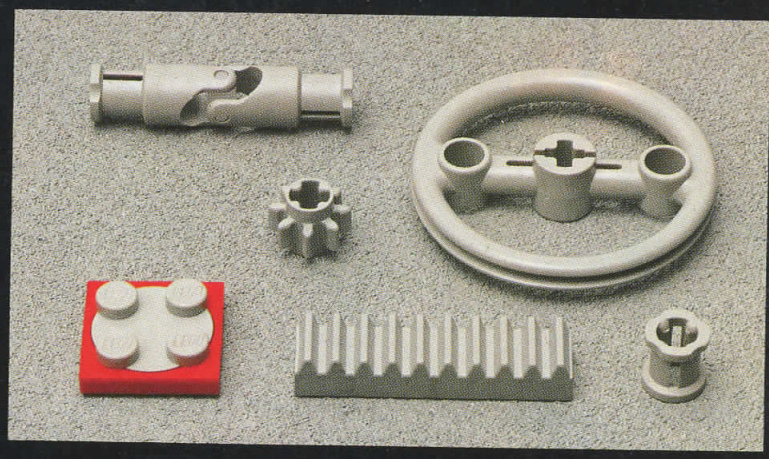

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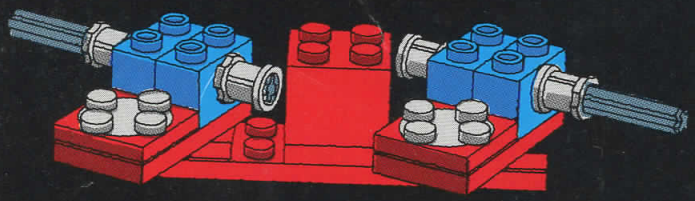

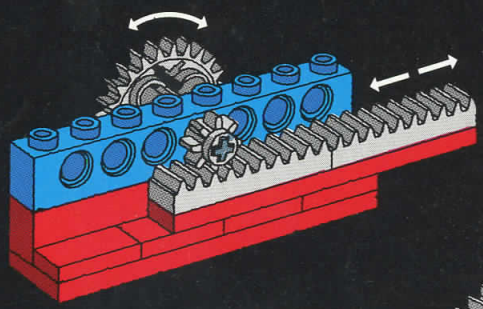

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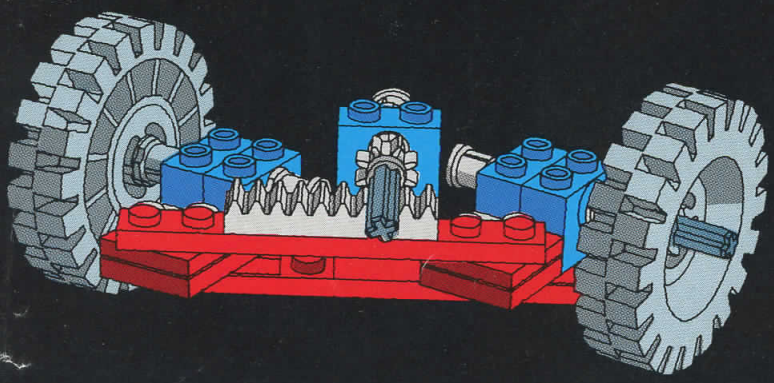
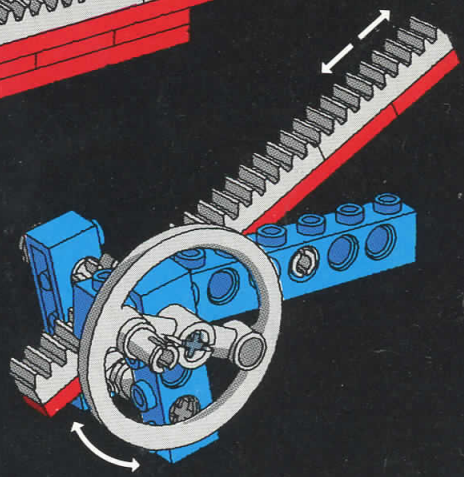
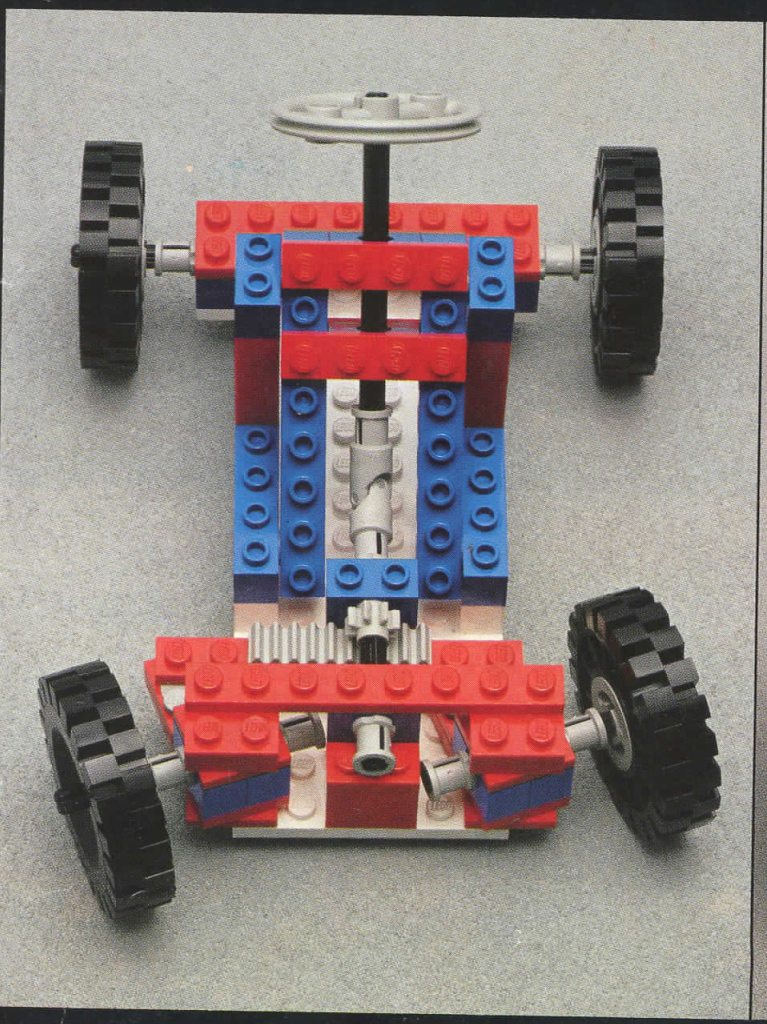
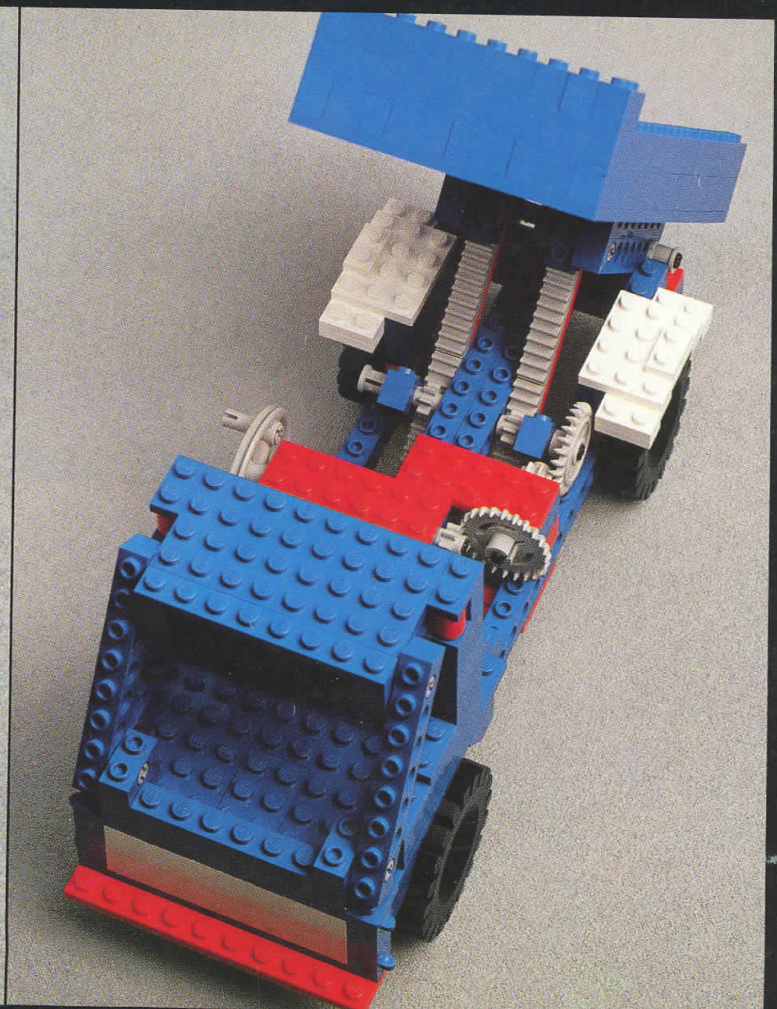
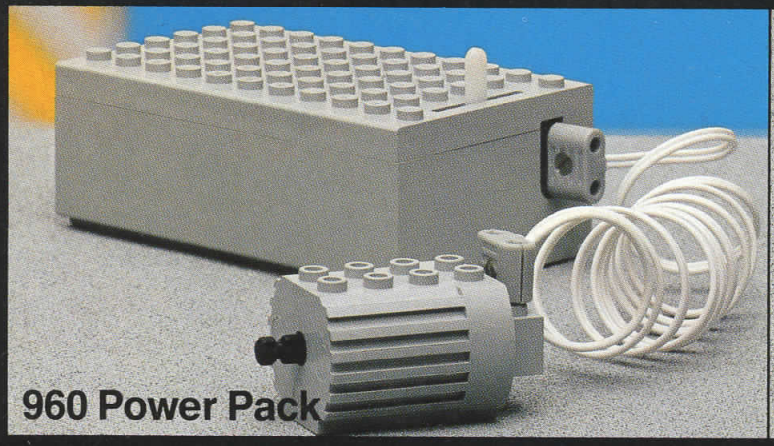


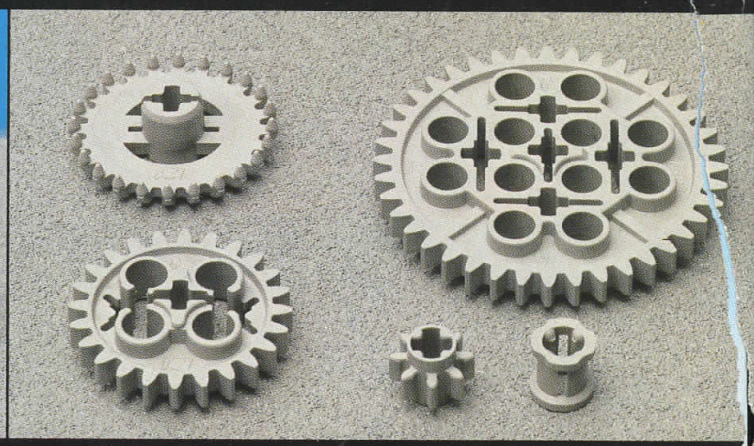


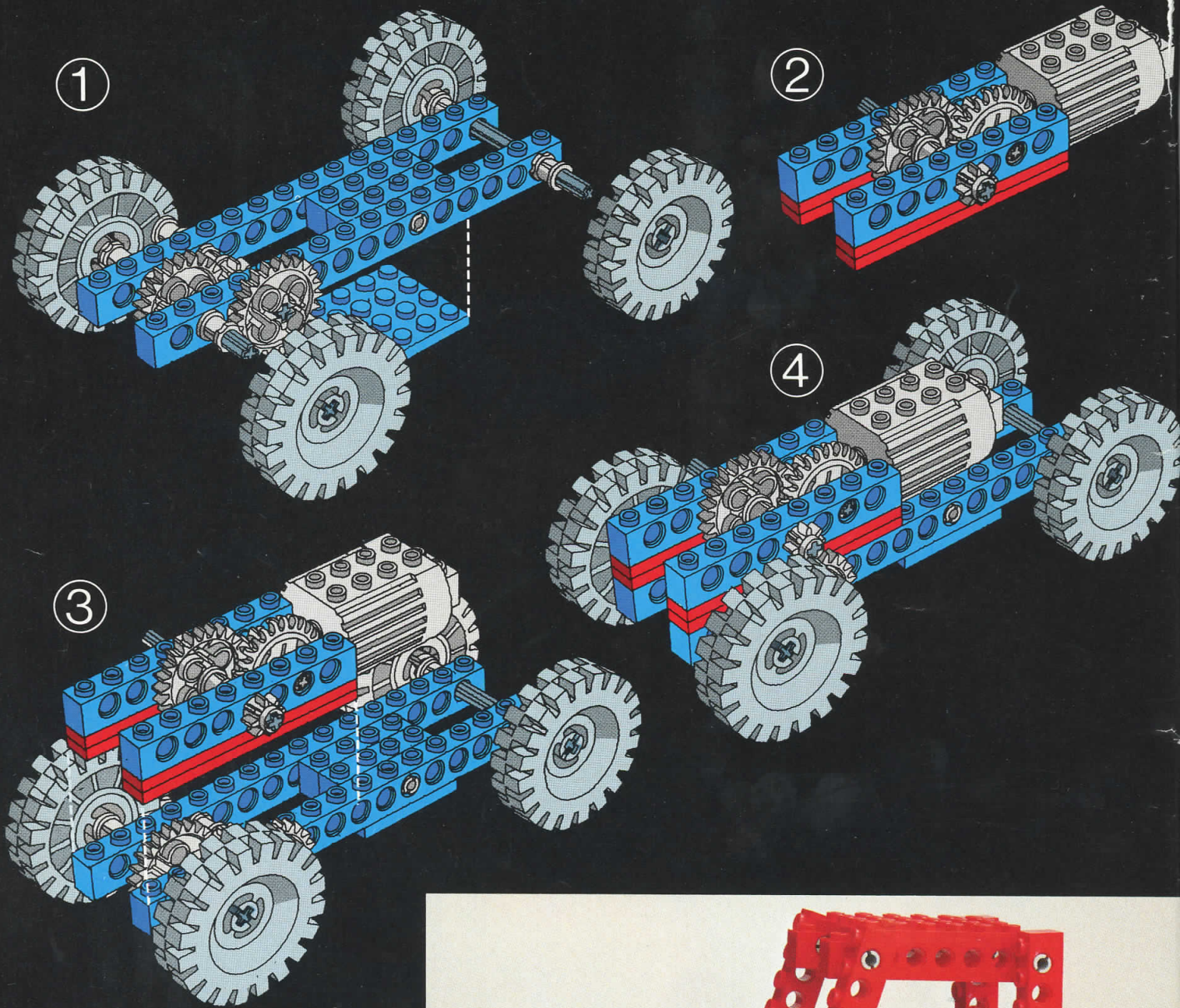


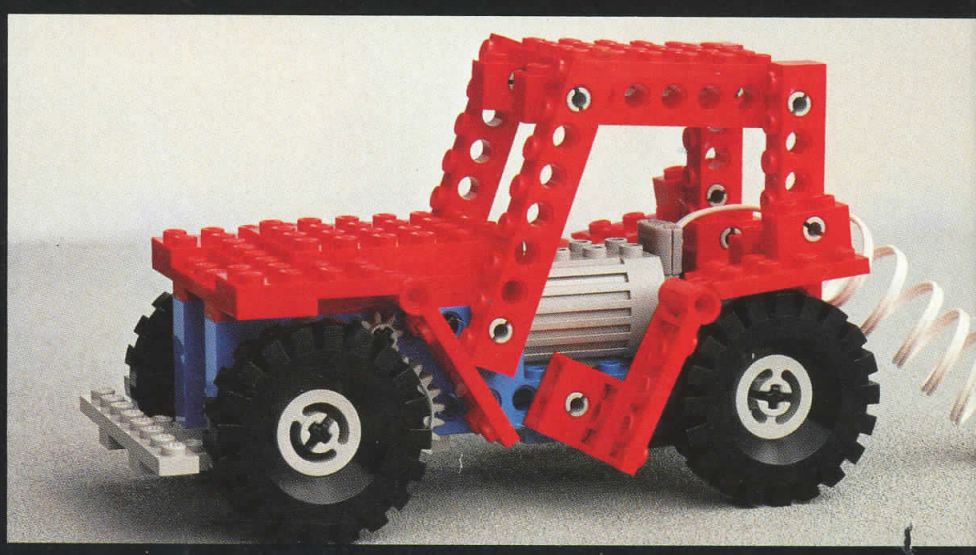




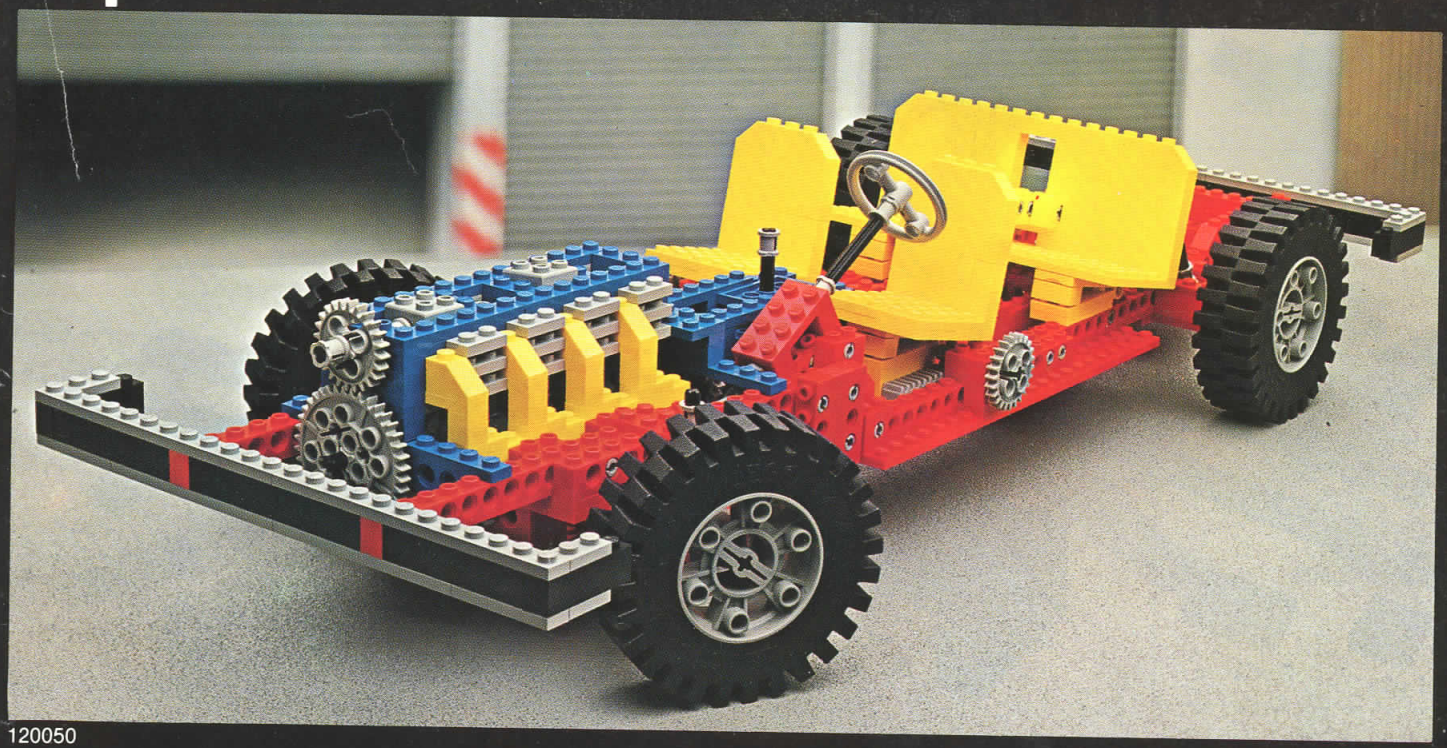
960 Power Pack





# 956
# Auto Chassis Expert Builder Set



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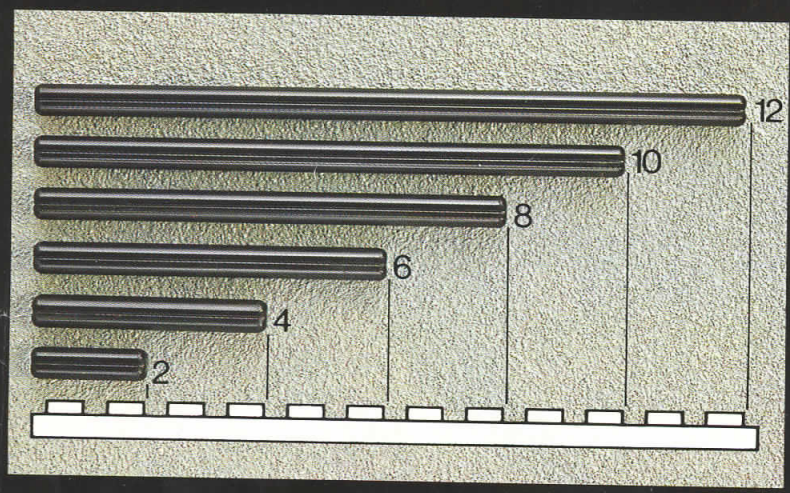
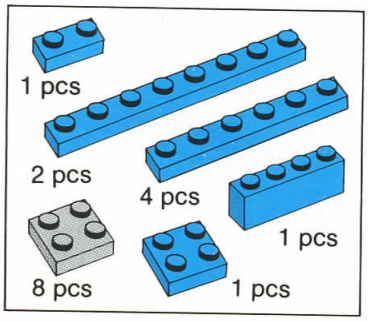



## Building hints

The following building hints will help you to realize the fun and satisfaction of this Expert Builder Set:

1. The instructions for building your Expert model are divided into individual construction phases. Each phase is numbered starting with number one.
2. The quantities and types of building pieces to be added are shown at each phase of construction. Select and count each of these pieces before you start building the next phase.
3. The numbers in the instructions near the axles show the length of axle to be used. These numbers go with the axle sizes shown on this page.
4. Take your time. The fun of building this model for the first time will then last even longer!

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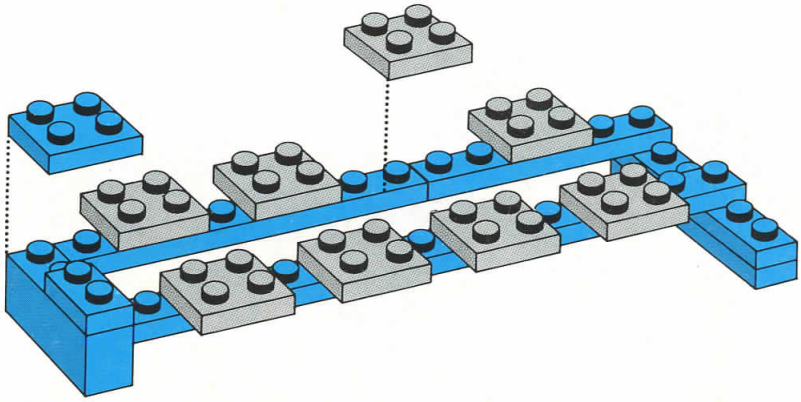

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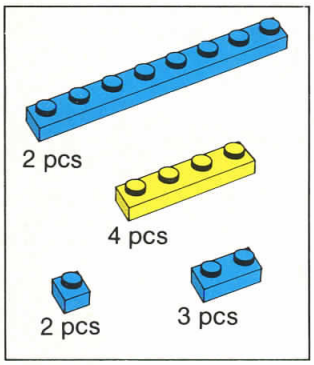
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4 pcs
2 pcs
3 pcs

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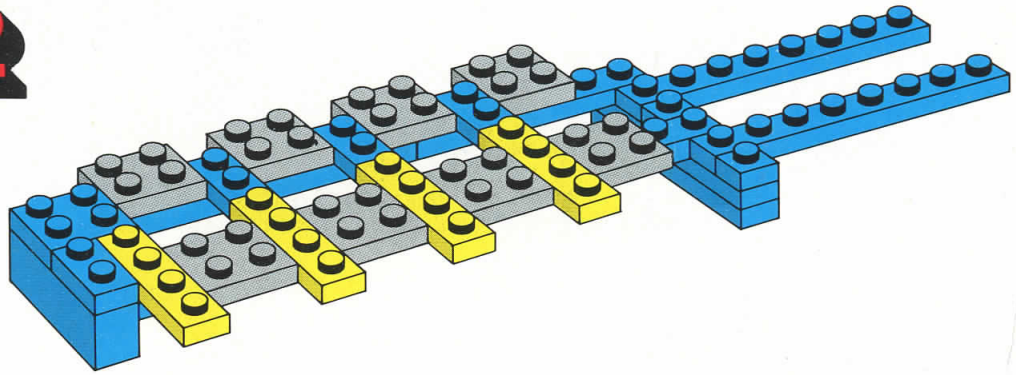
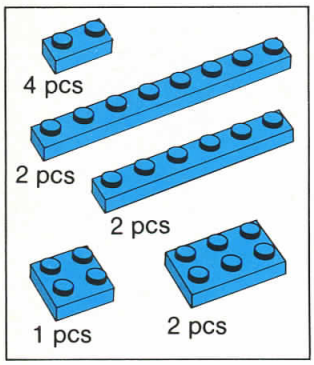
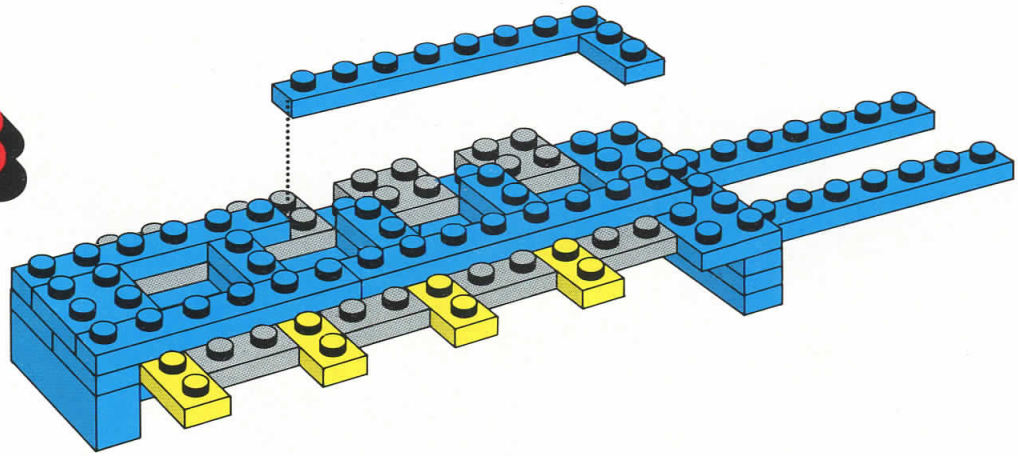
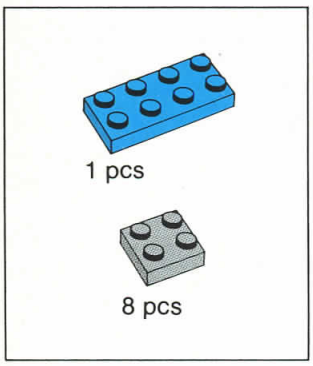



4 pcs
2 pcs
2 pcs
1 pcs
2 pcs

## 3

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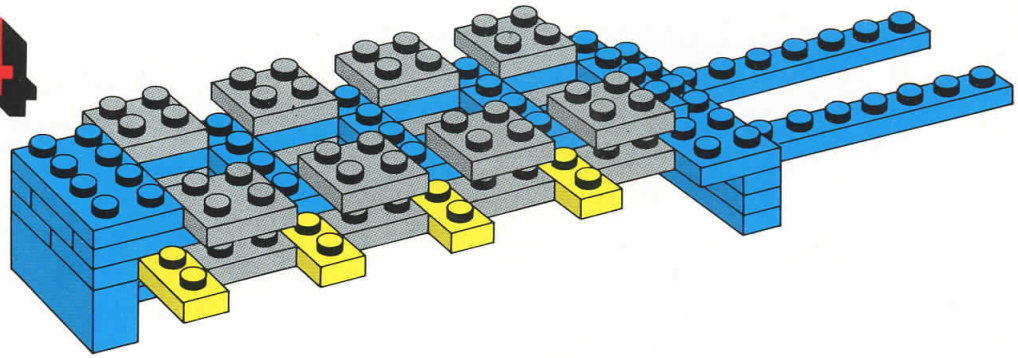

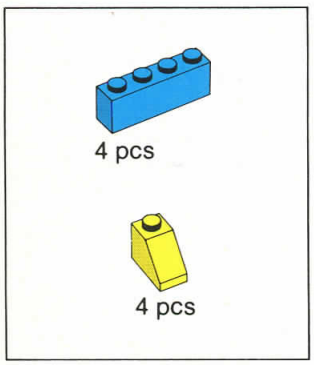
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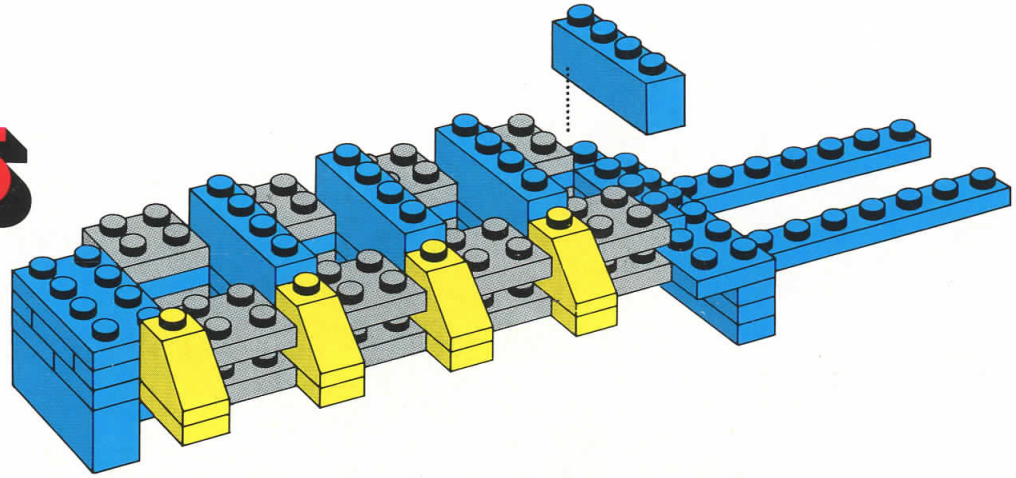

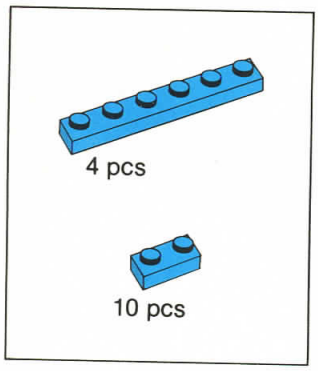


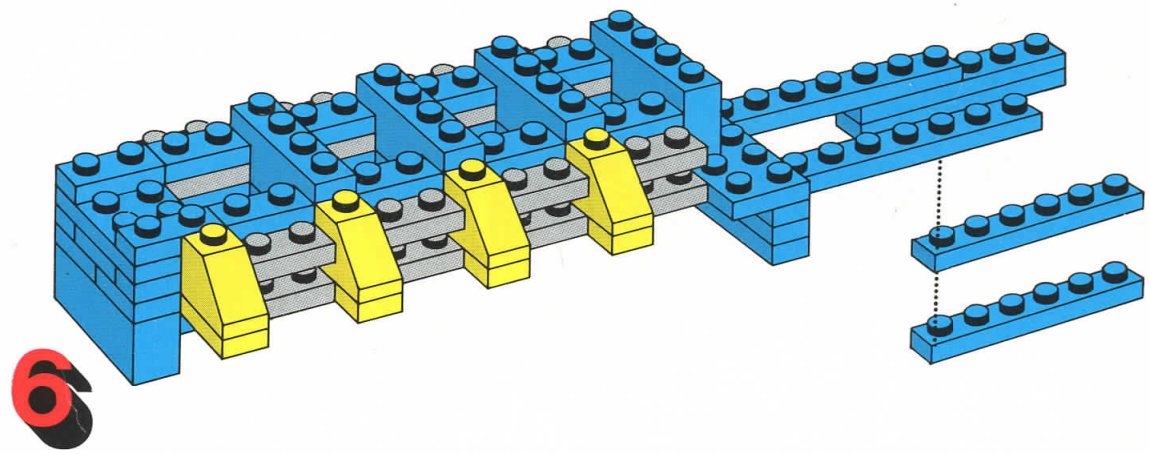

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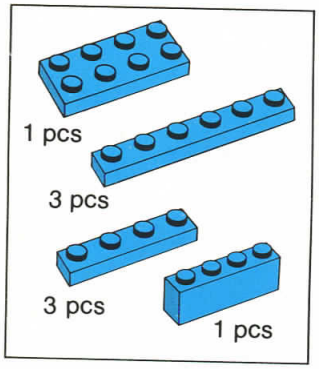


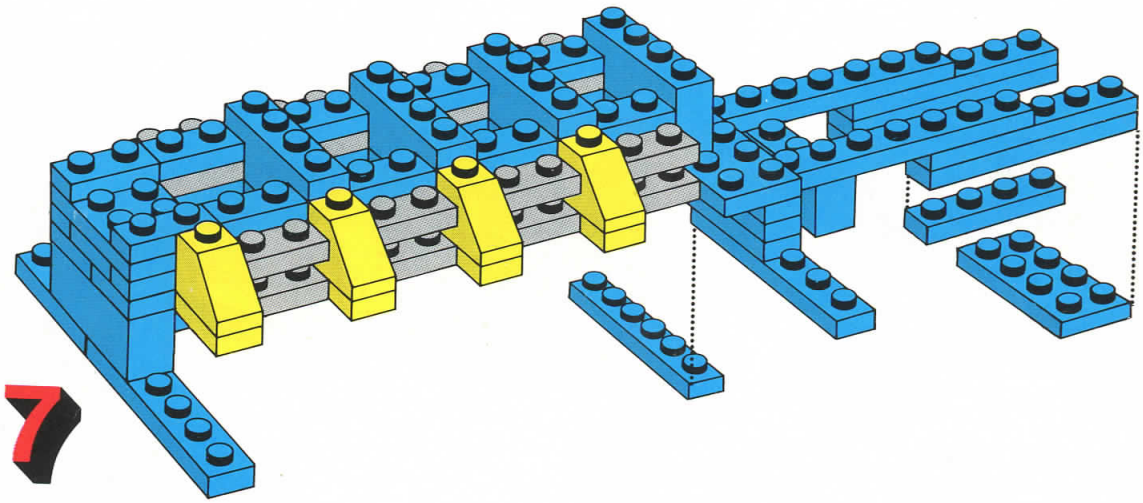

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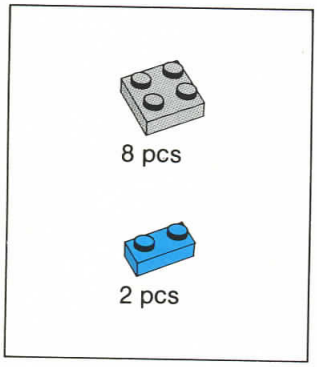


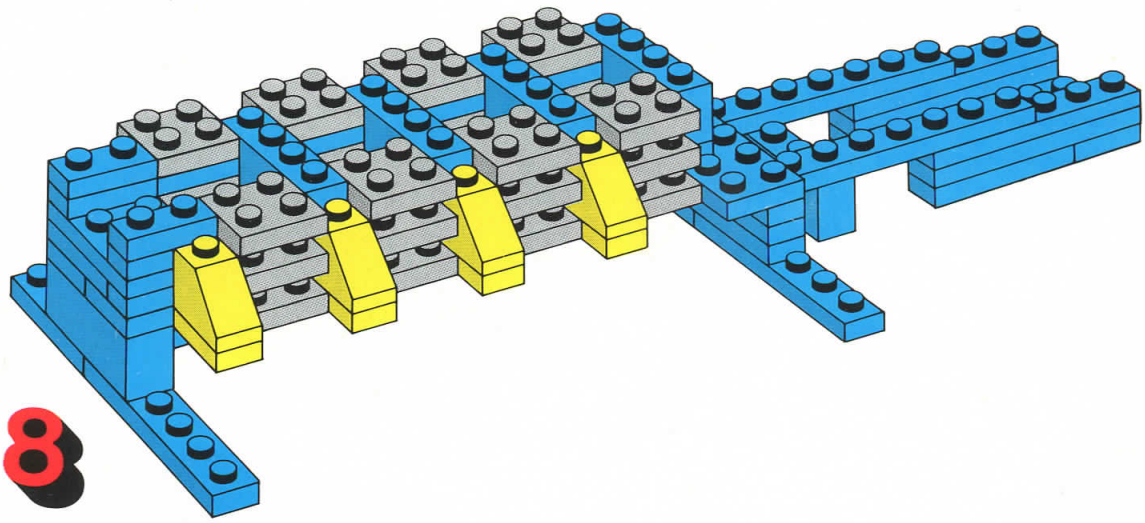

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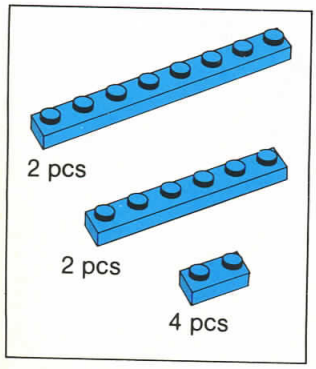


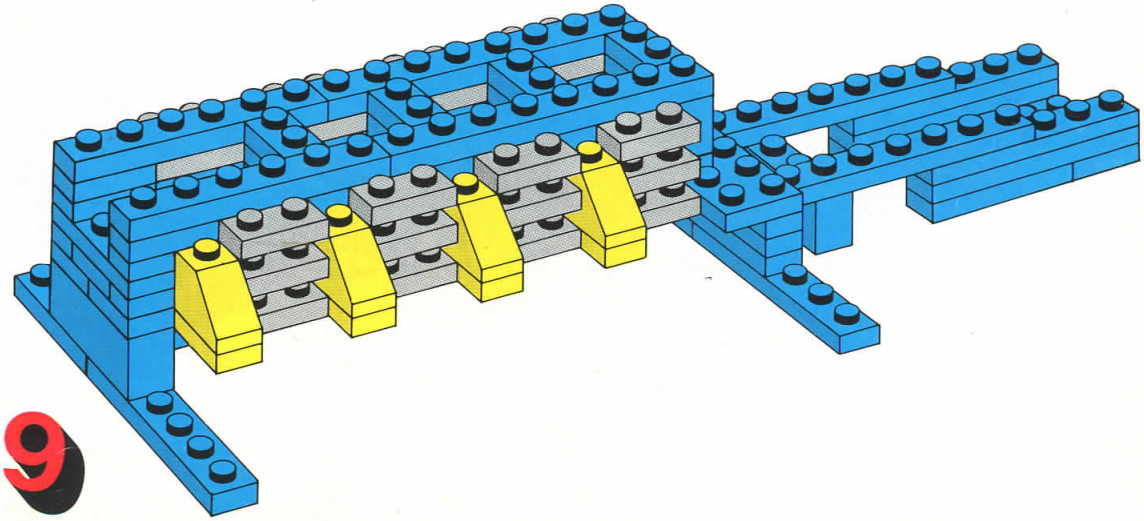

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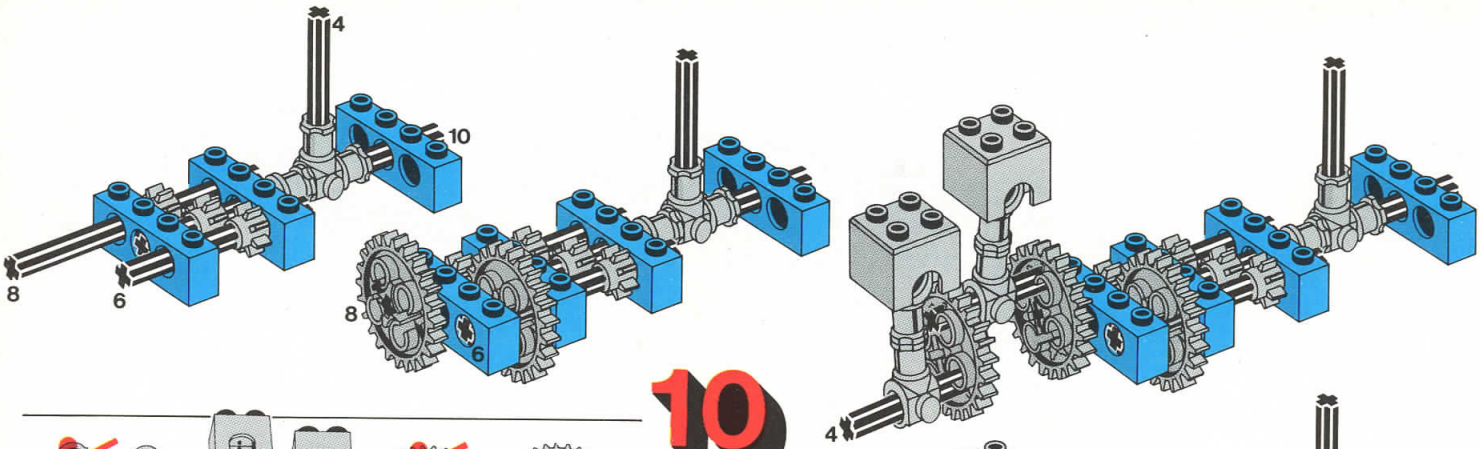
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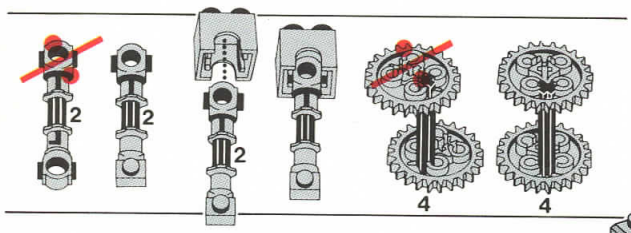
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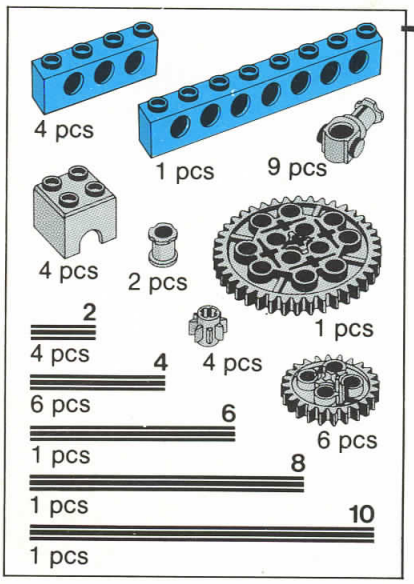
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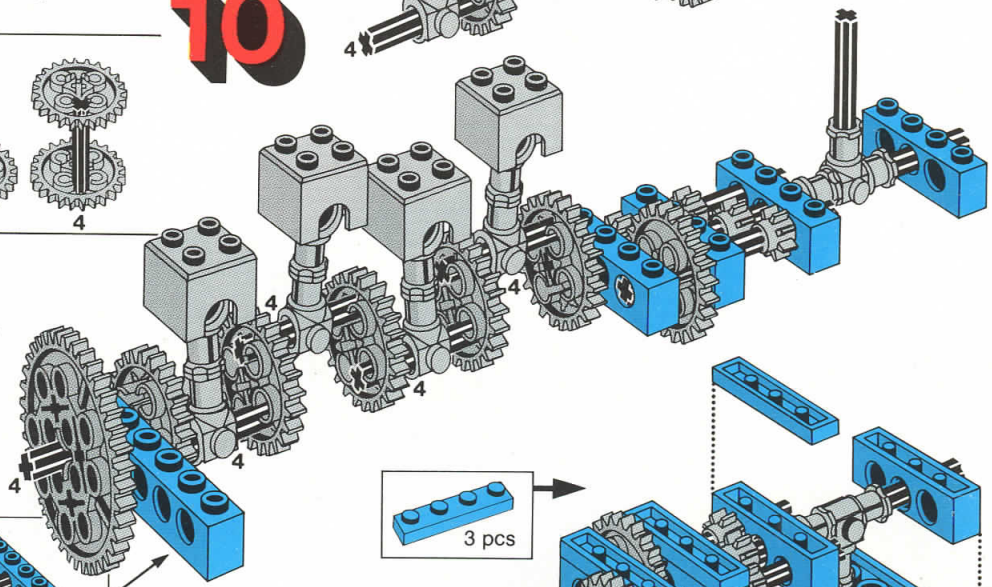
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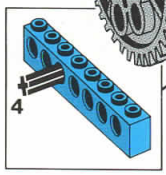
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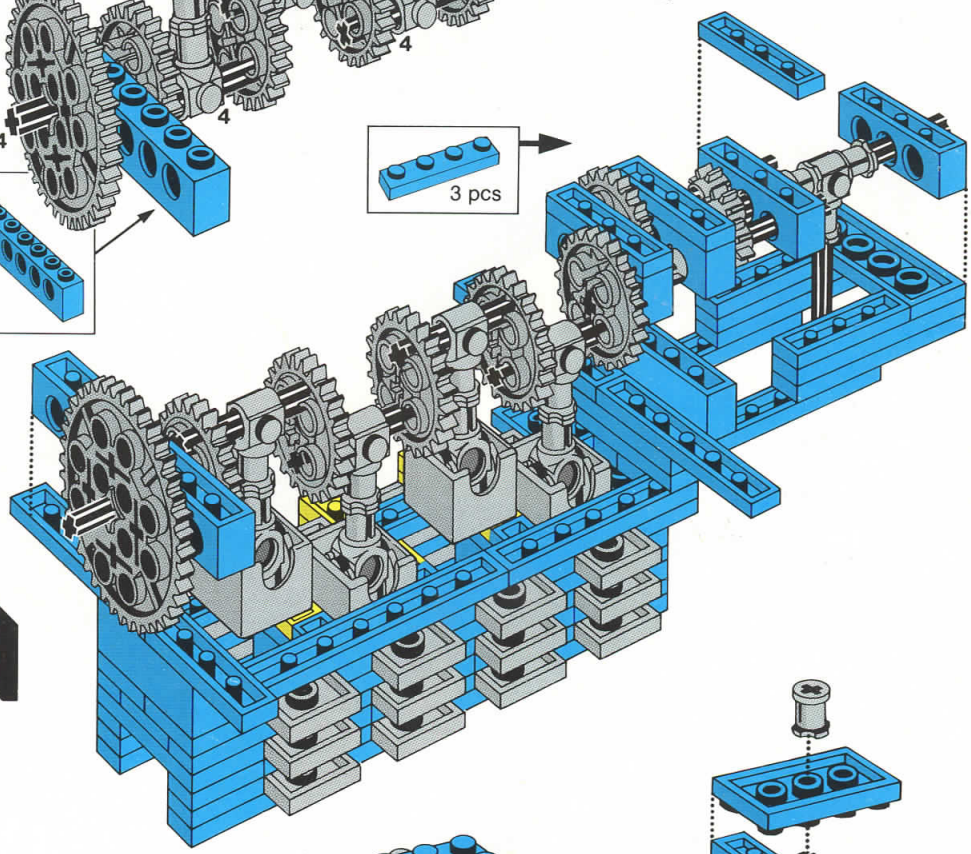

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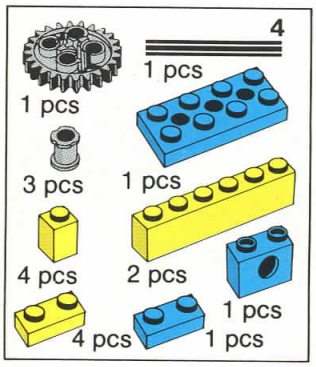
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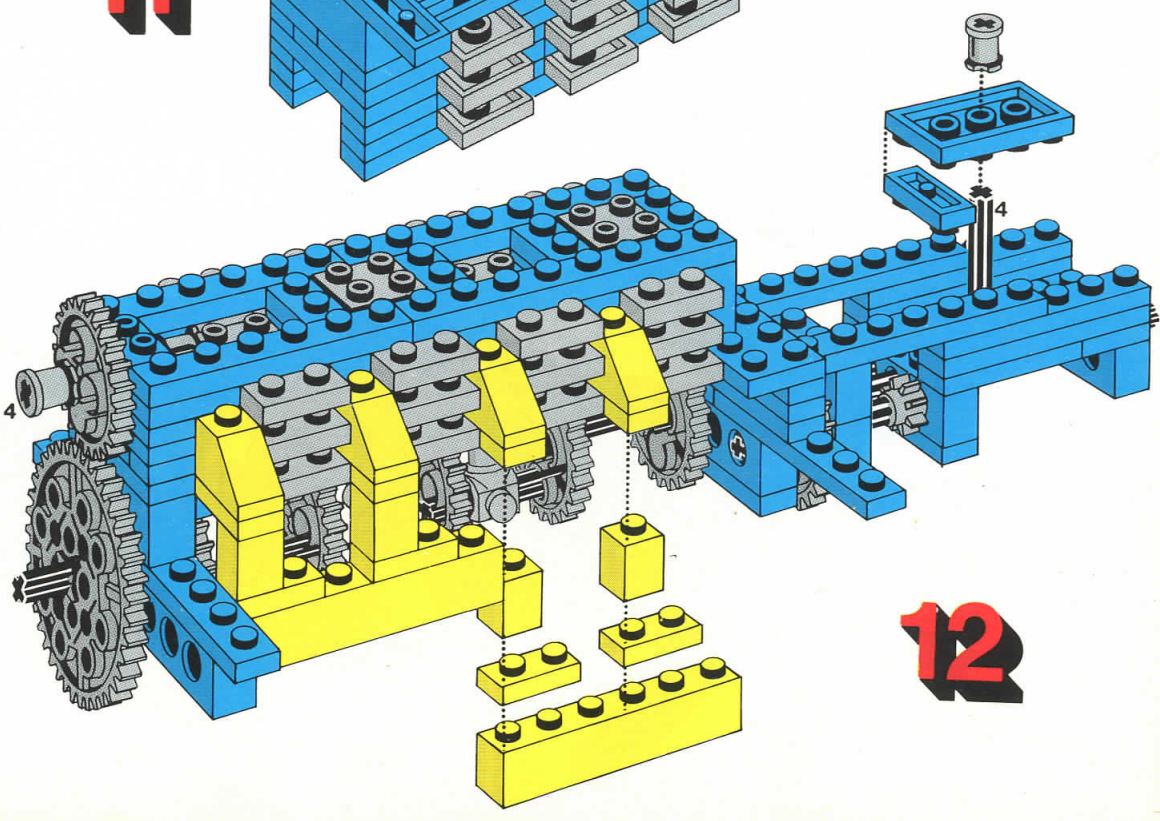
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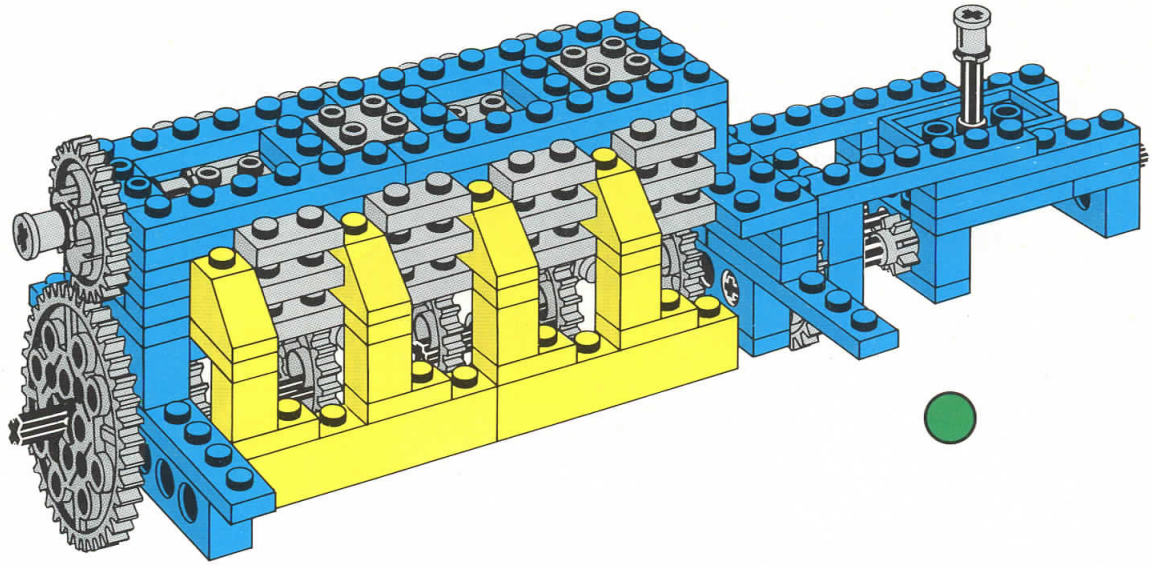

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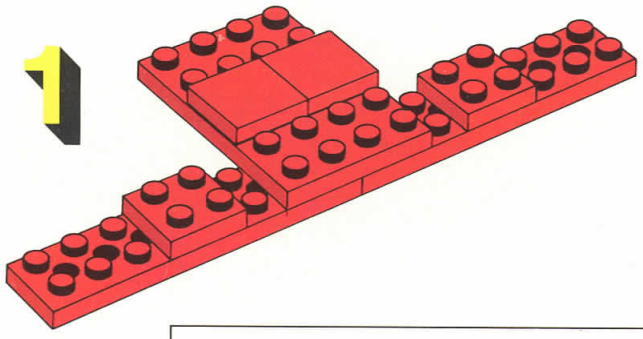

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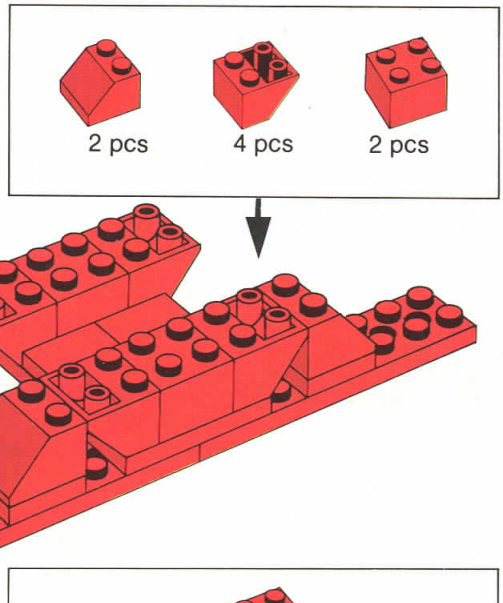
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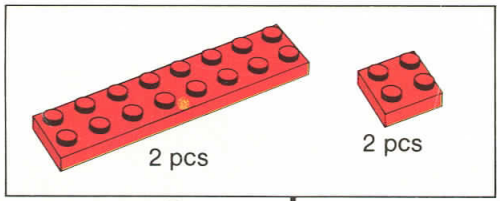
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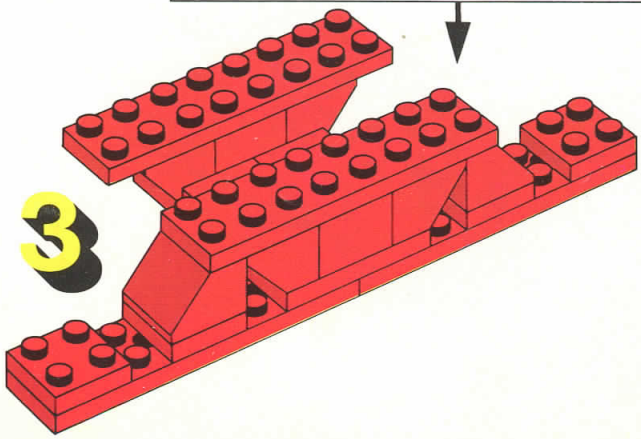

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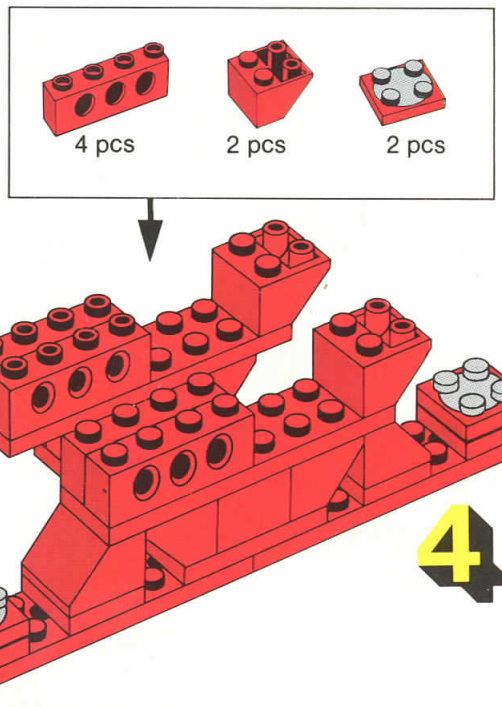
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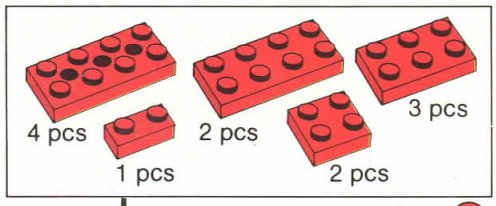
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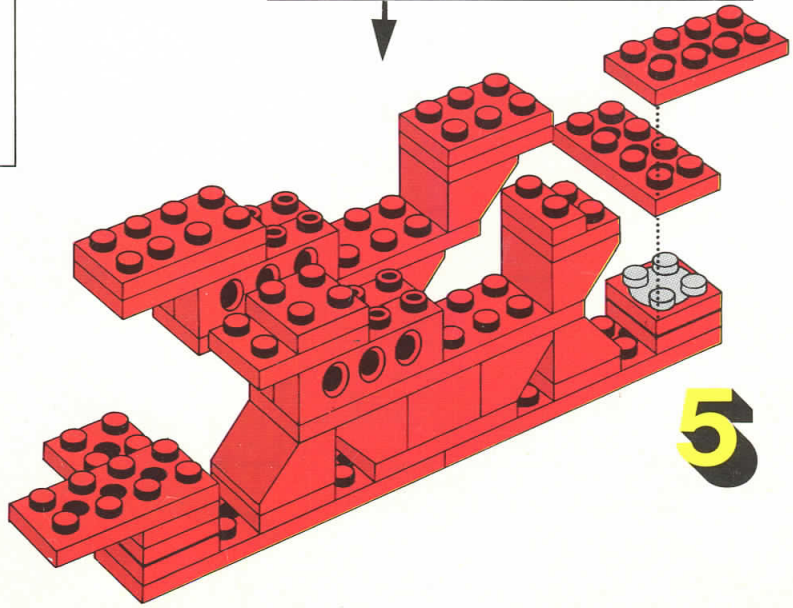

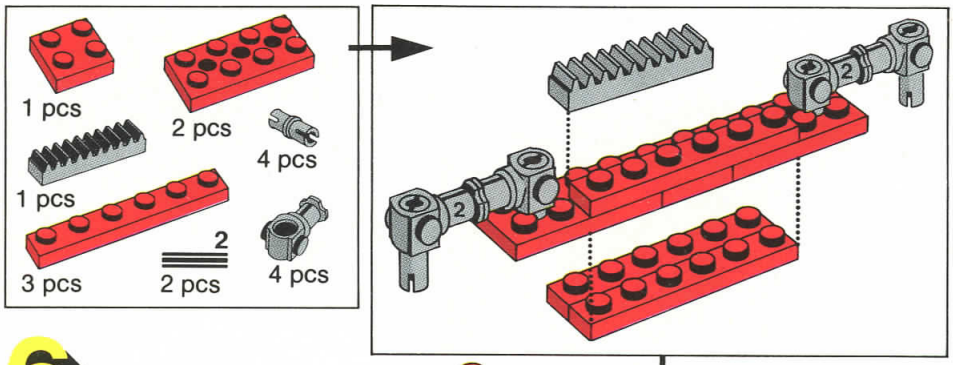
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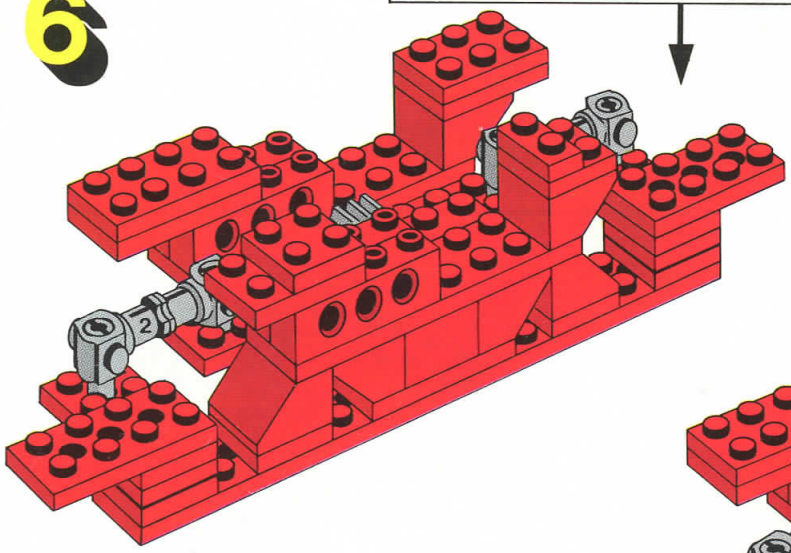
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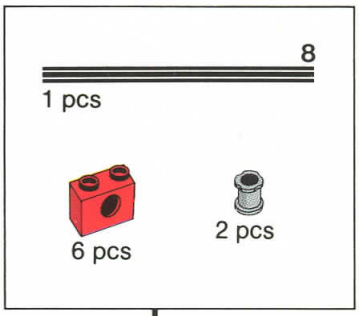
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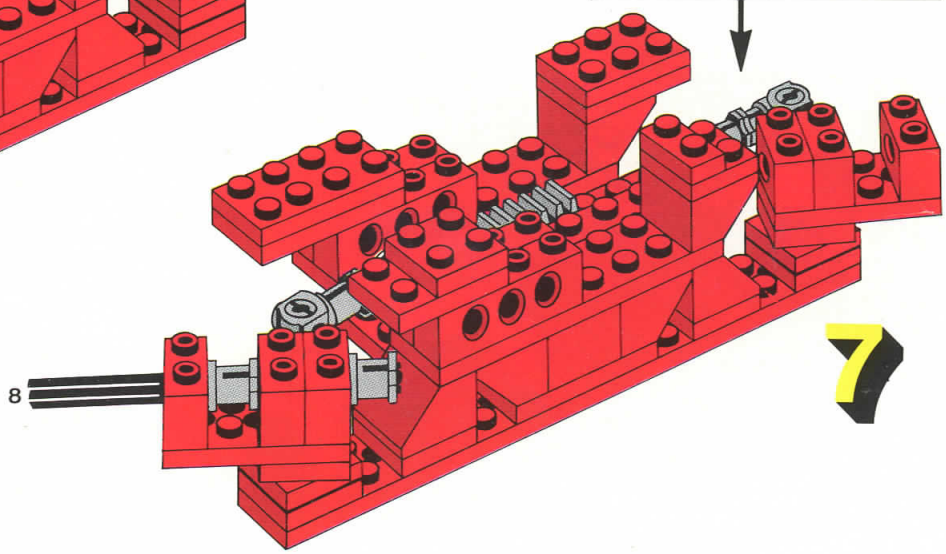
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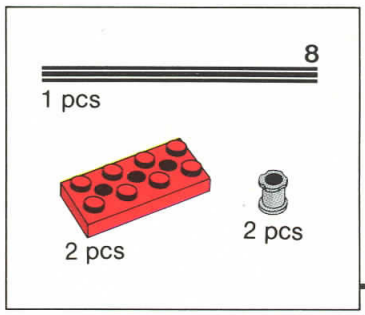
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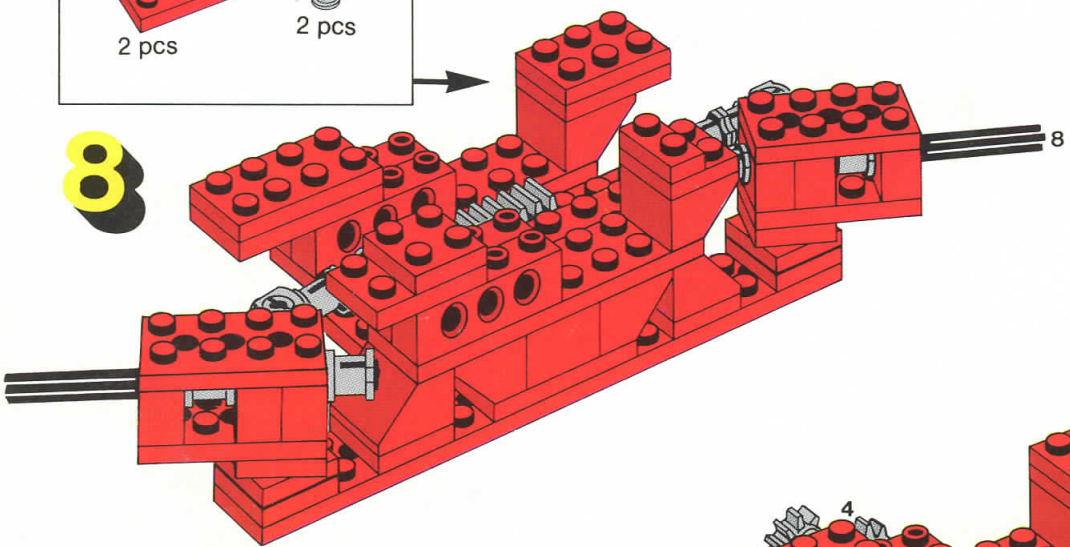
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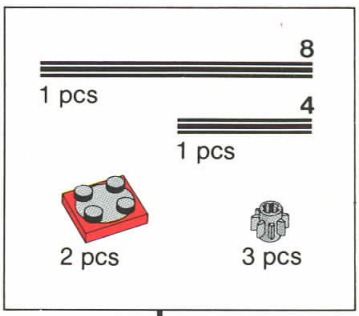
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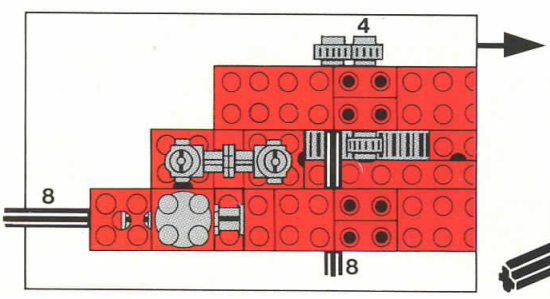
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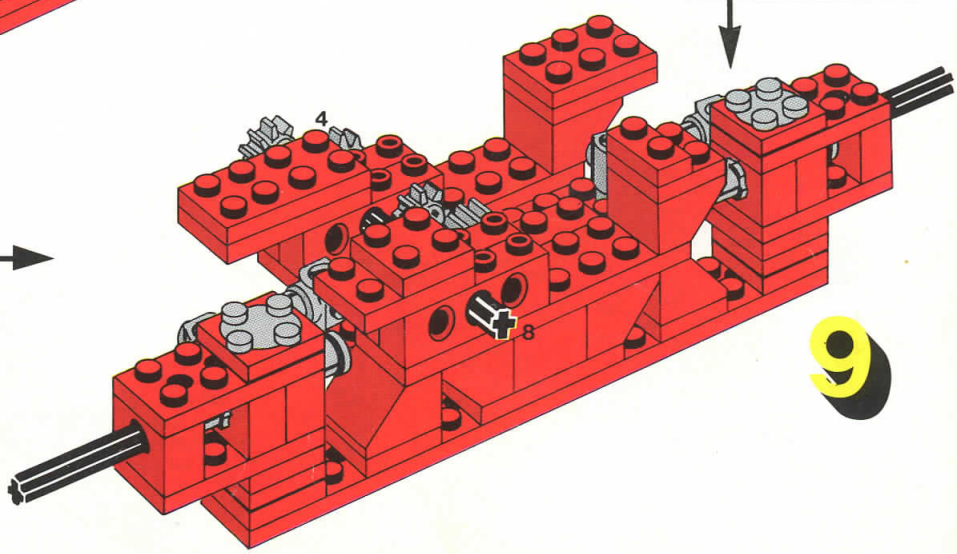
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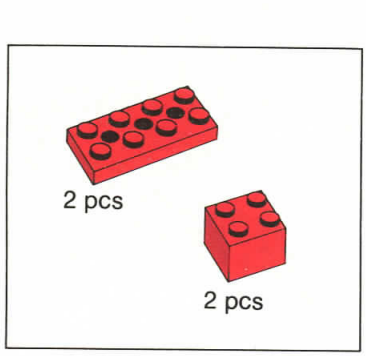


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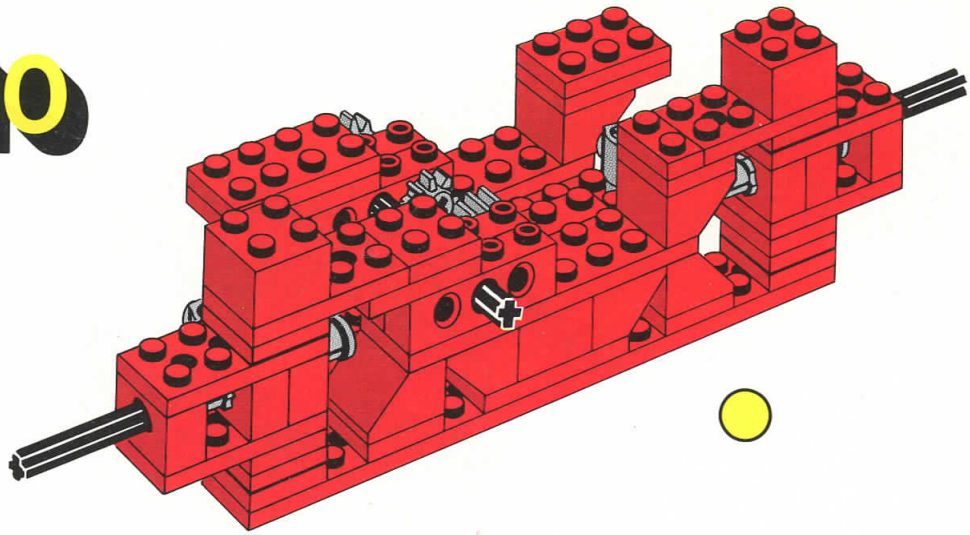

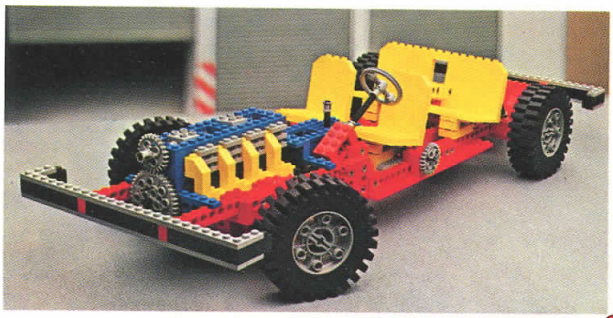

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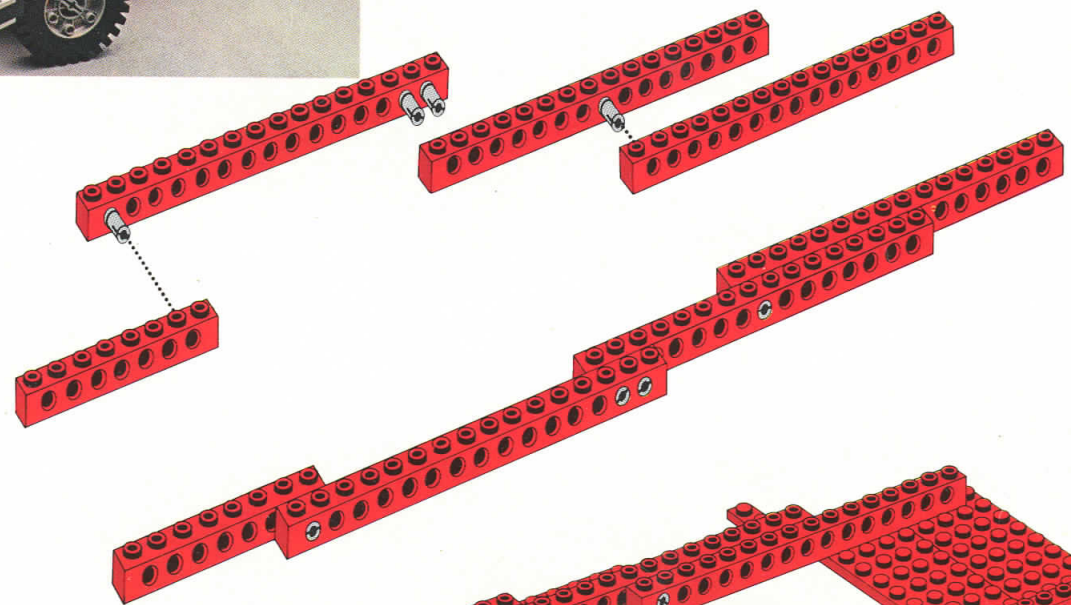

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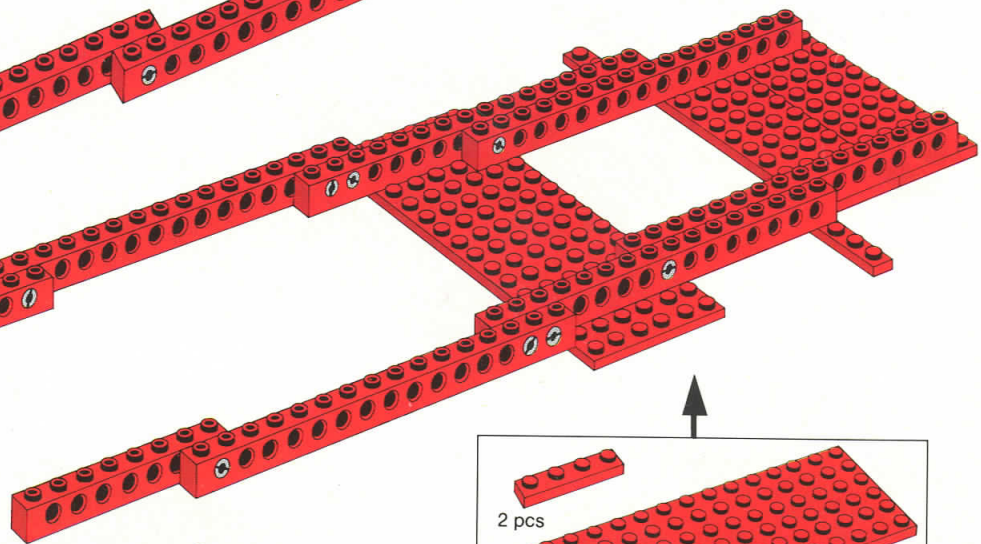


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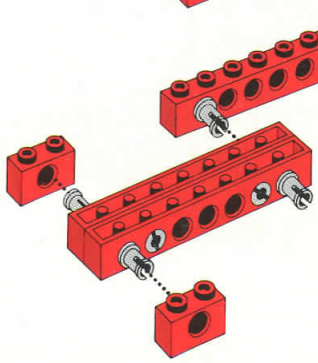

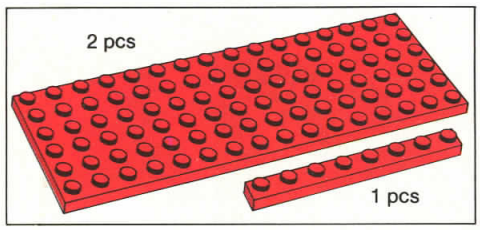
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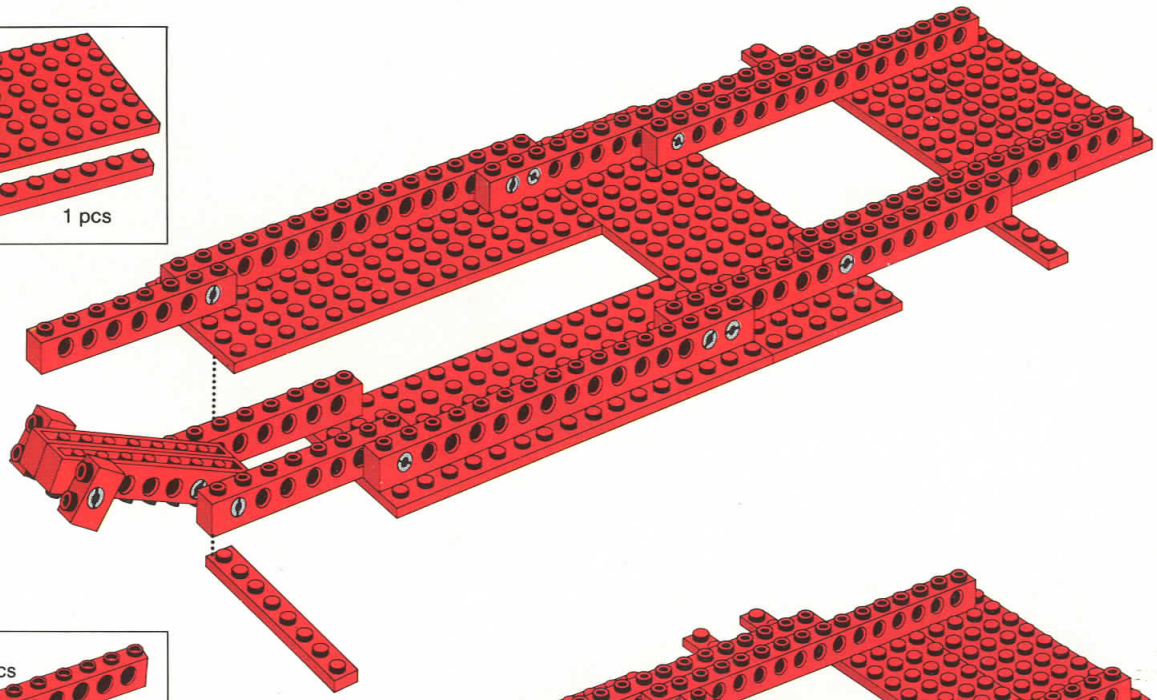

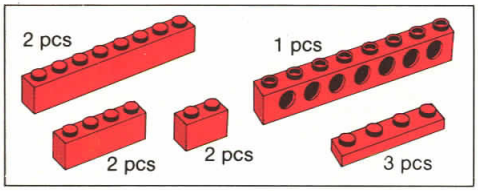
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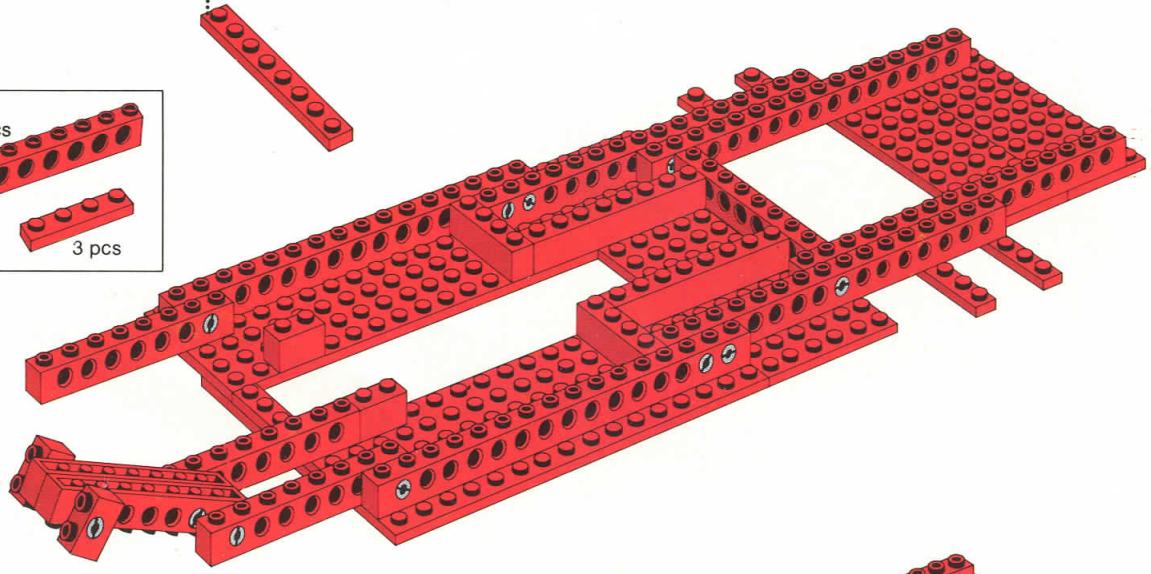

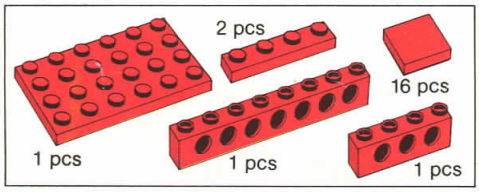
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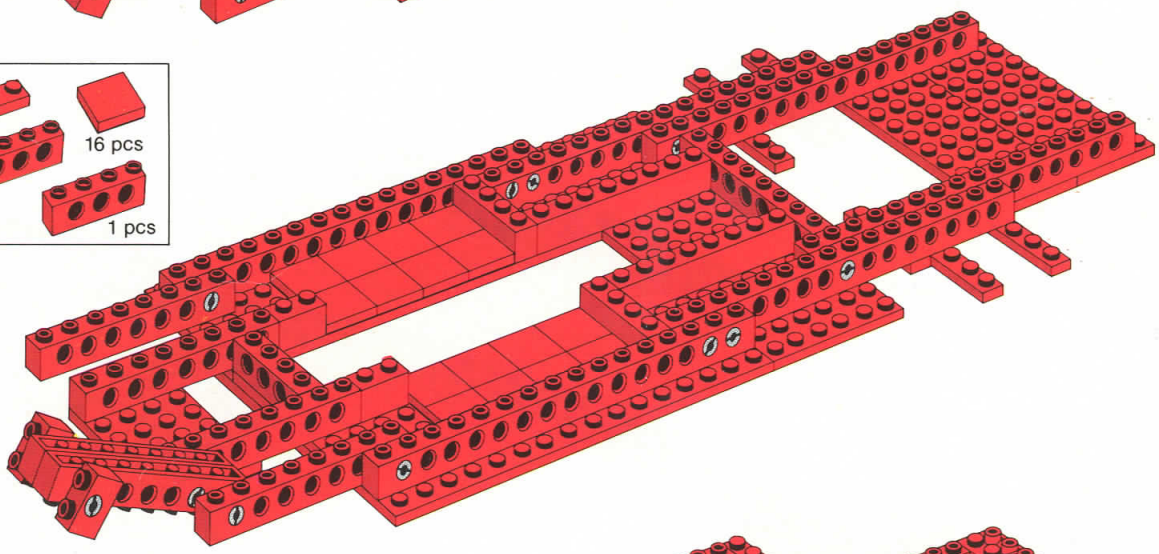

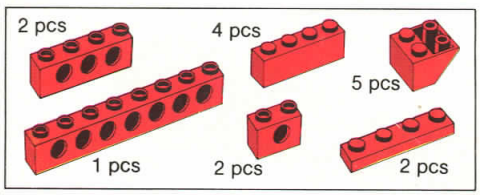
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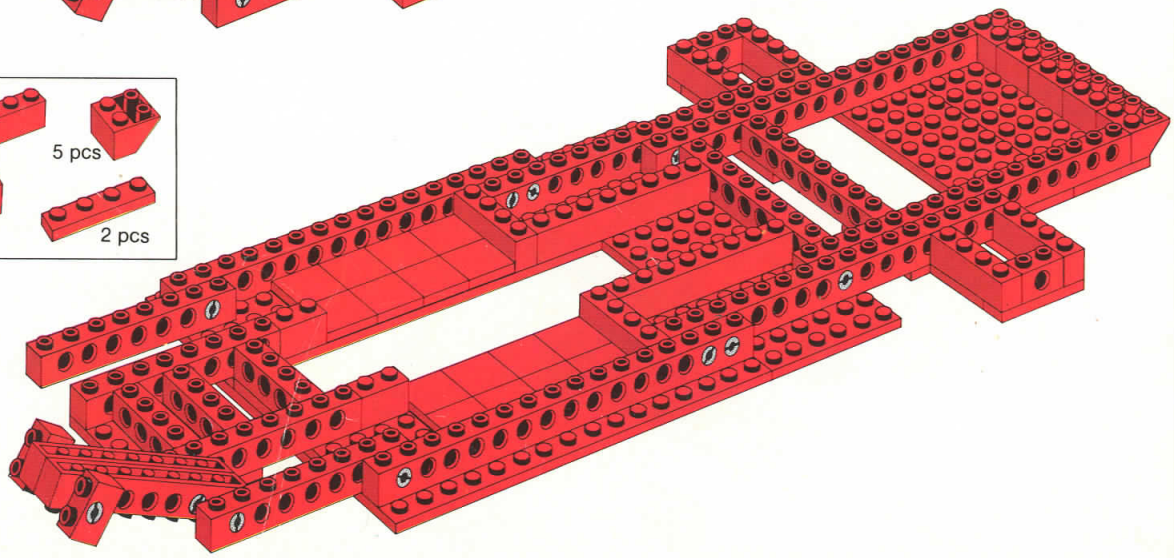

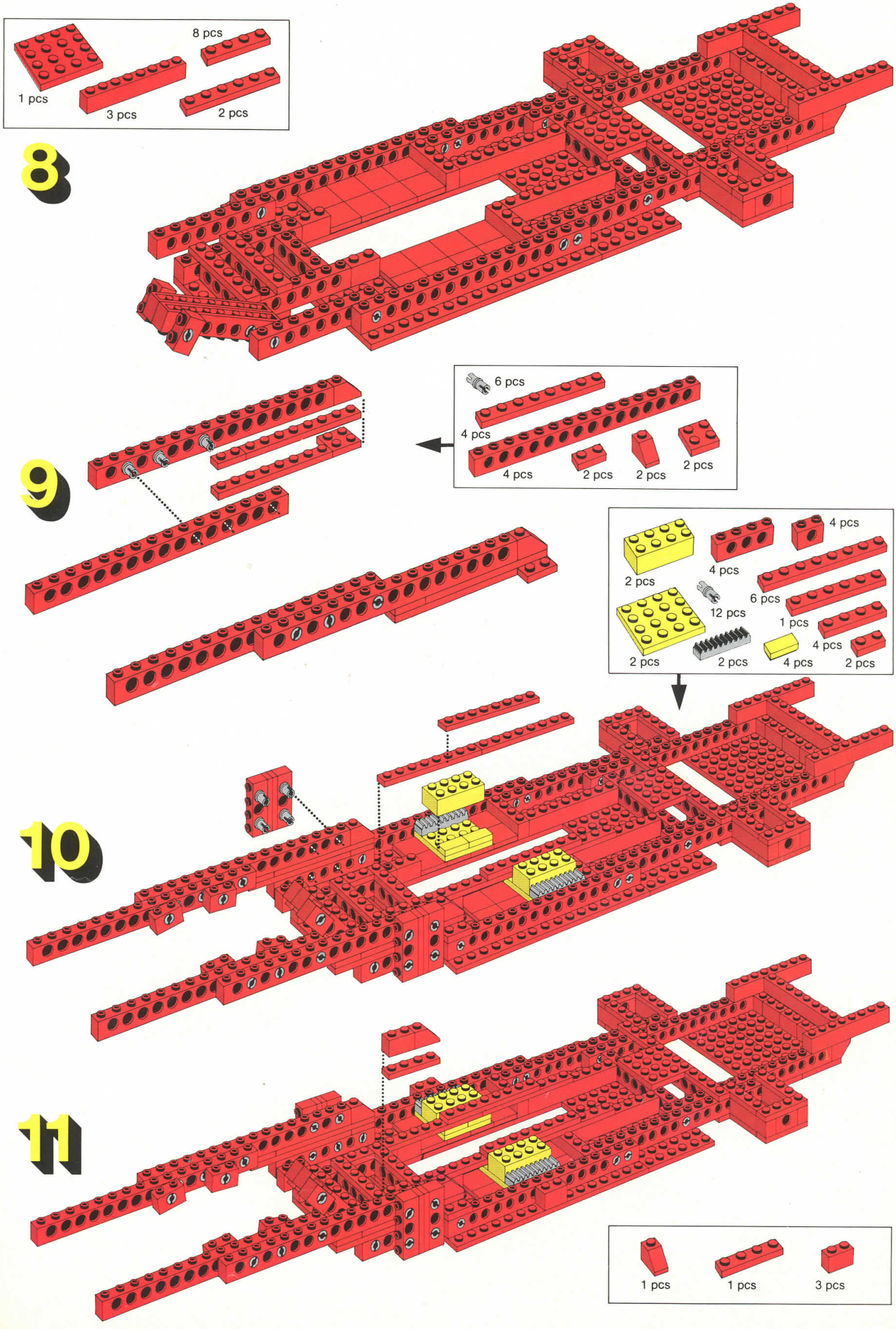
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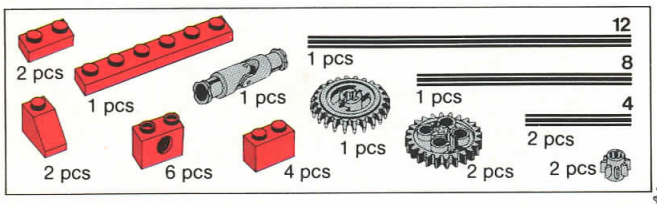
3 pcs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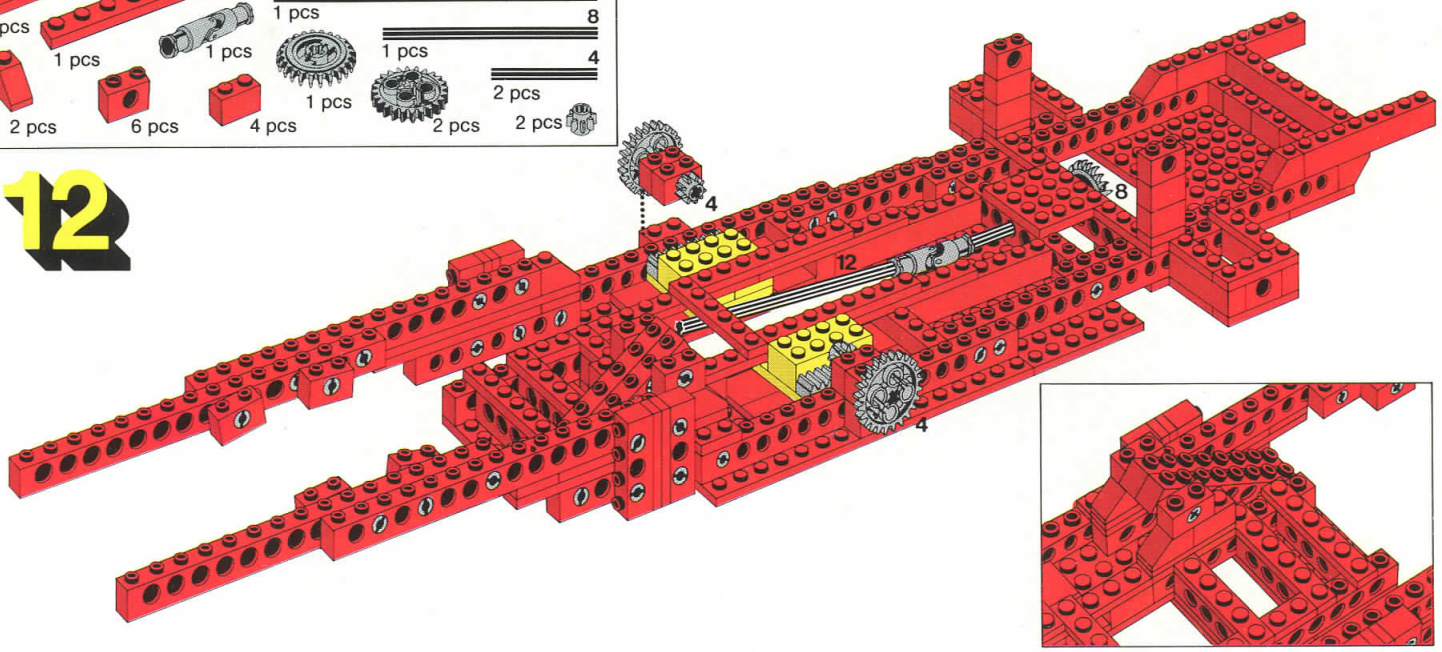
1 pcs
1 pcs
1 pcs
1 pcs
2 pcs
6 pcs
4 pcs
2 pcs
2 pcs
12
8
4

# 12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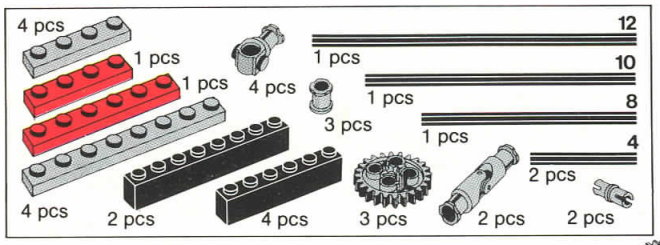
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1 pcs
1 pcs
4 pcs
1 pcs
3 pcs
1 pcs
2 pcs
4 pcs
2 pcs
12
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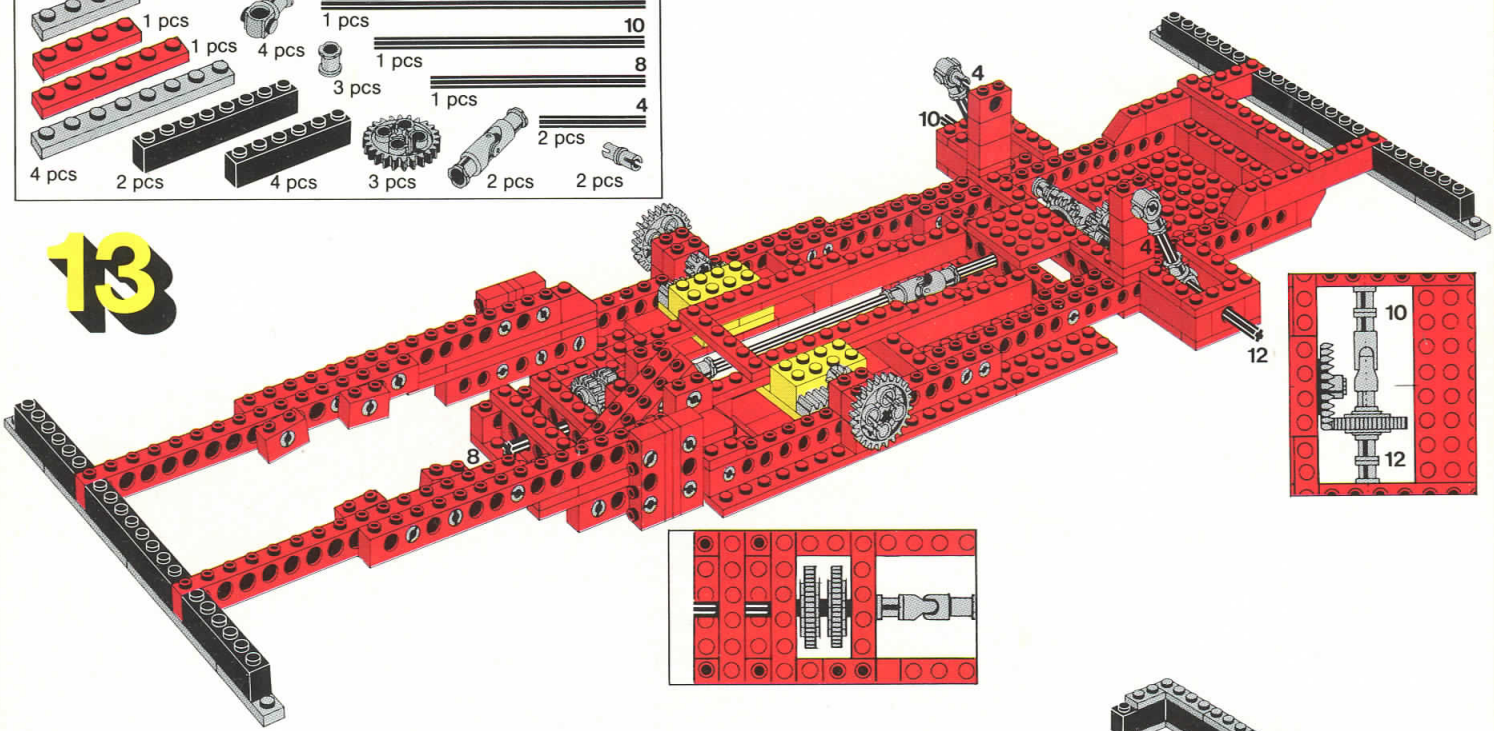
4
4 pcs
2 pcs
4 pcs
3 pcs
2 pcs
2 pcs

# 13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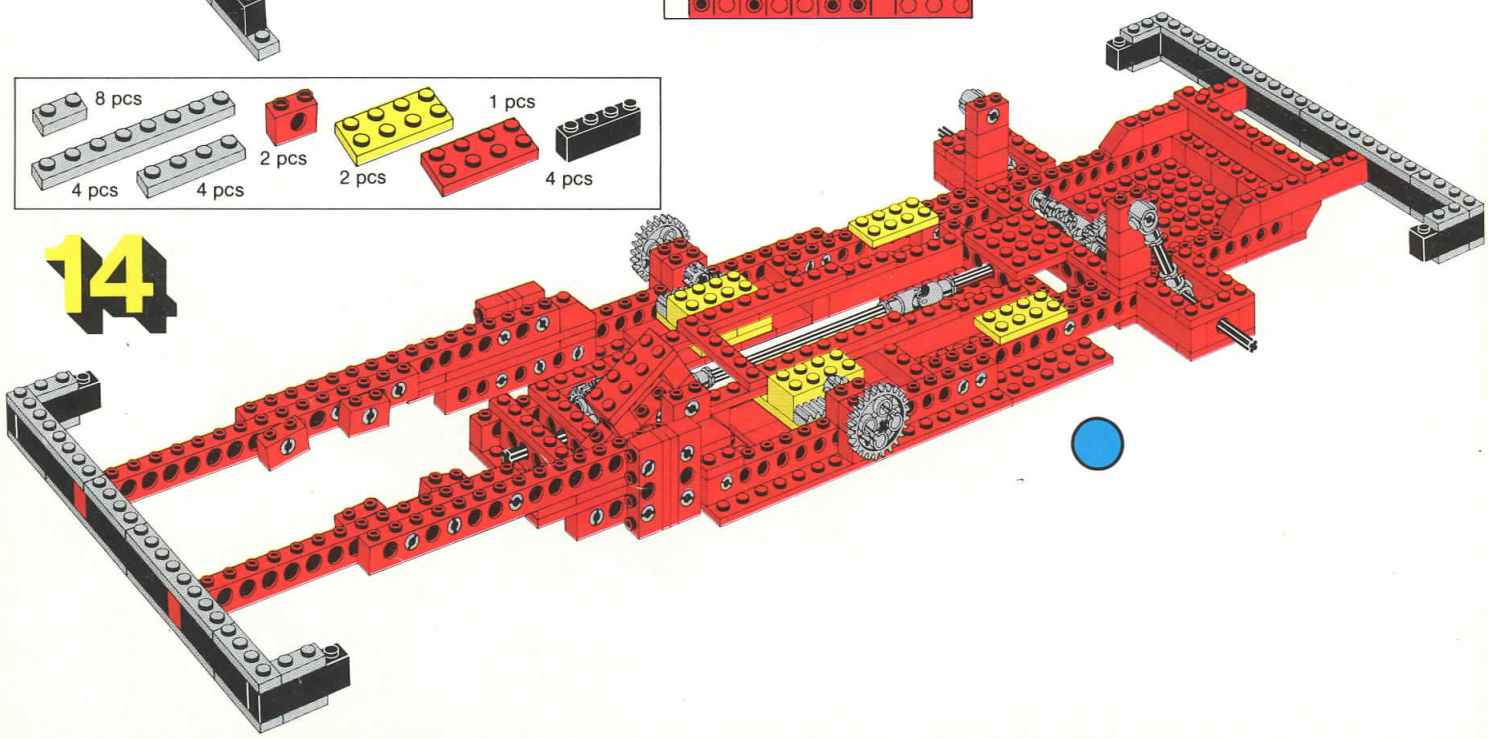
10
4
12
8

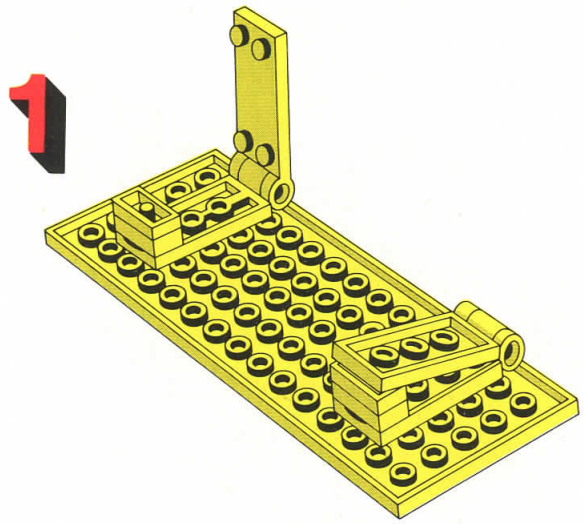

10
12




8 pcs
2 pcs
1 pcs
4 pcs
4 pcs
2 pcs
4 pcs

# 14

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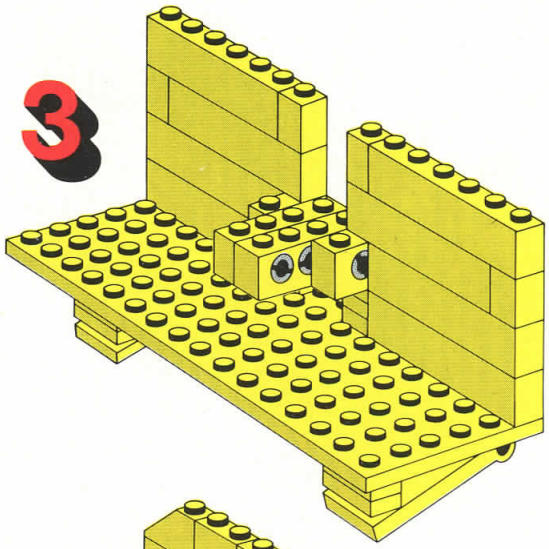
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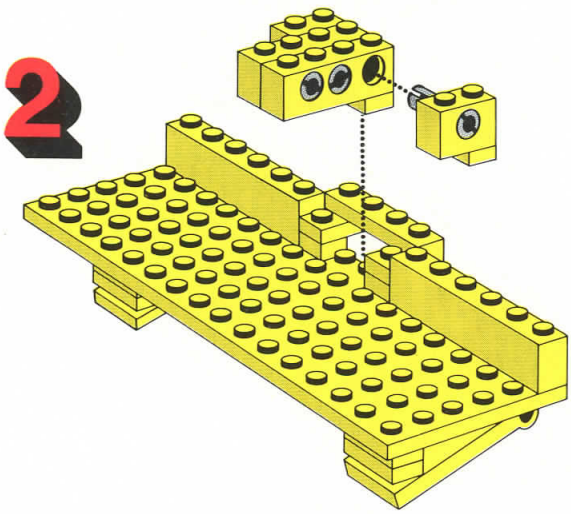
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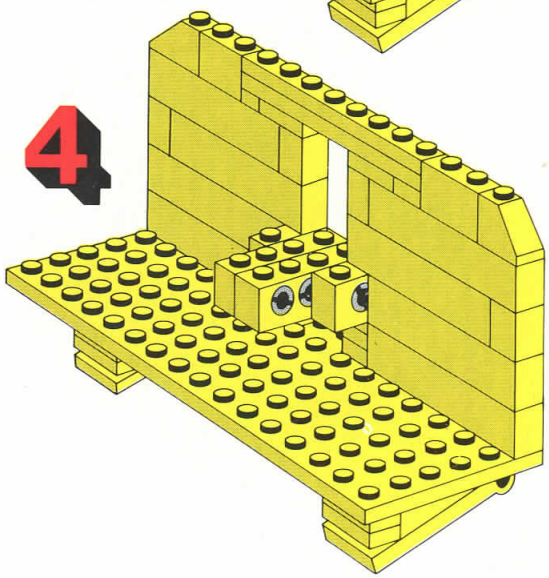
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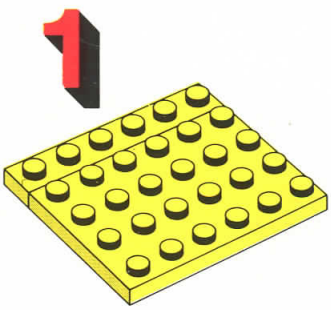
©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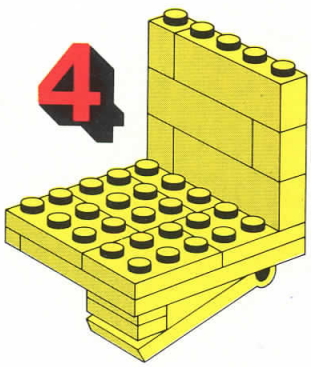
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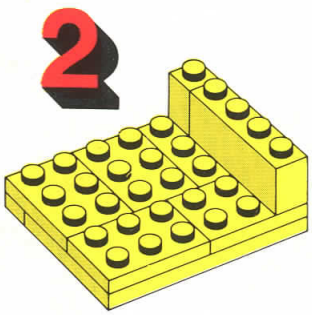
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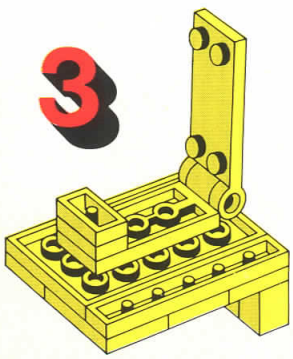
©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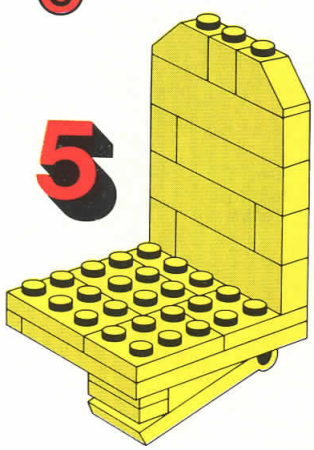
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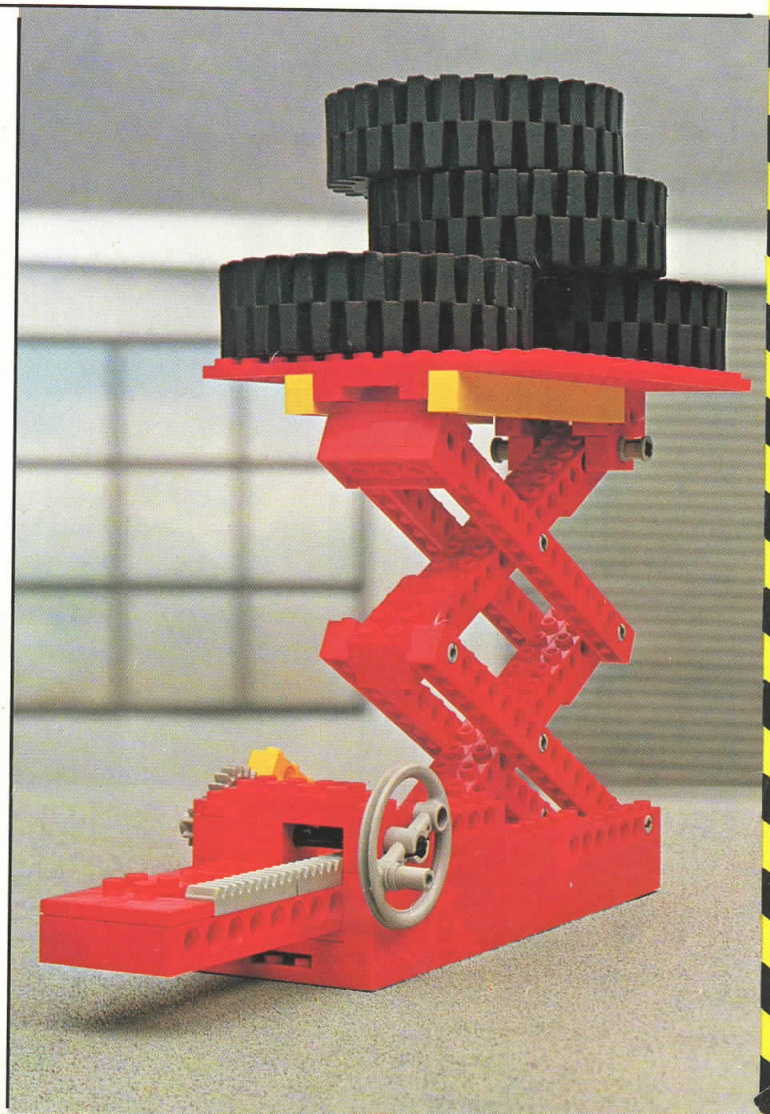

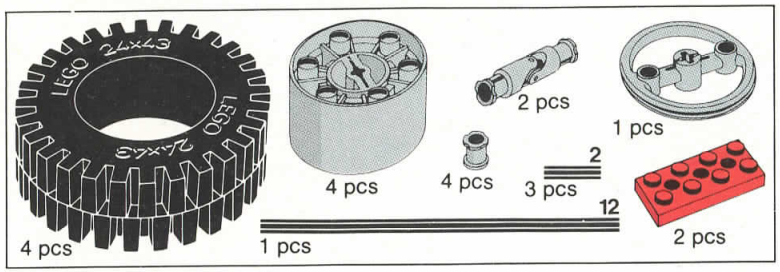


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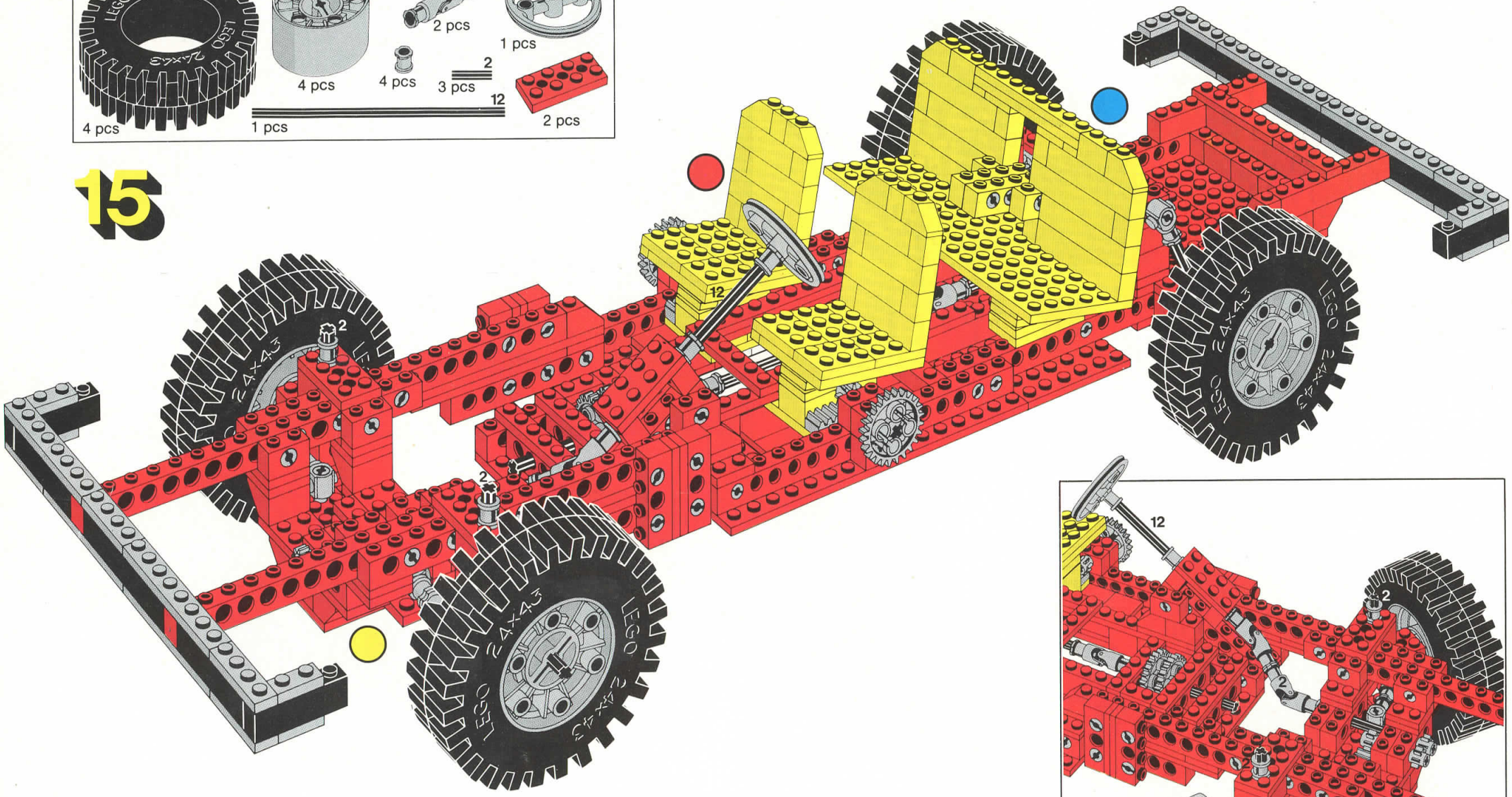
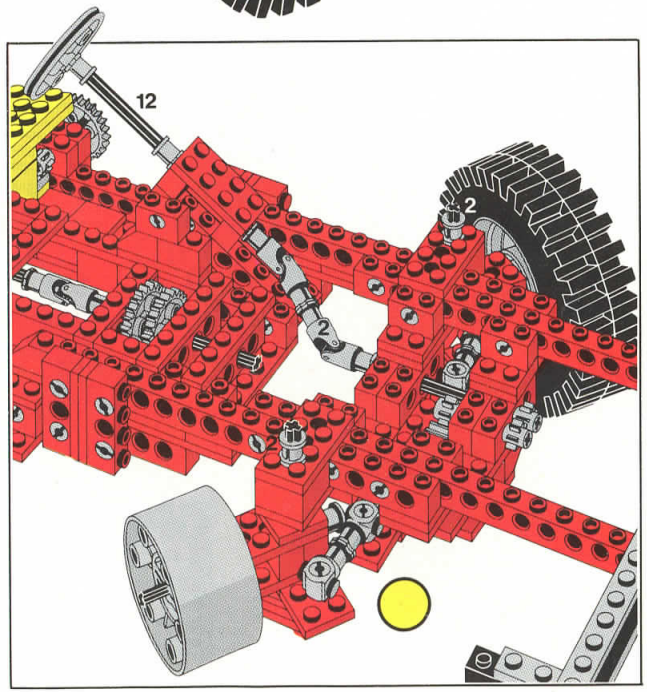
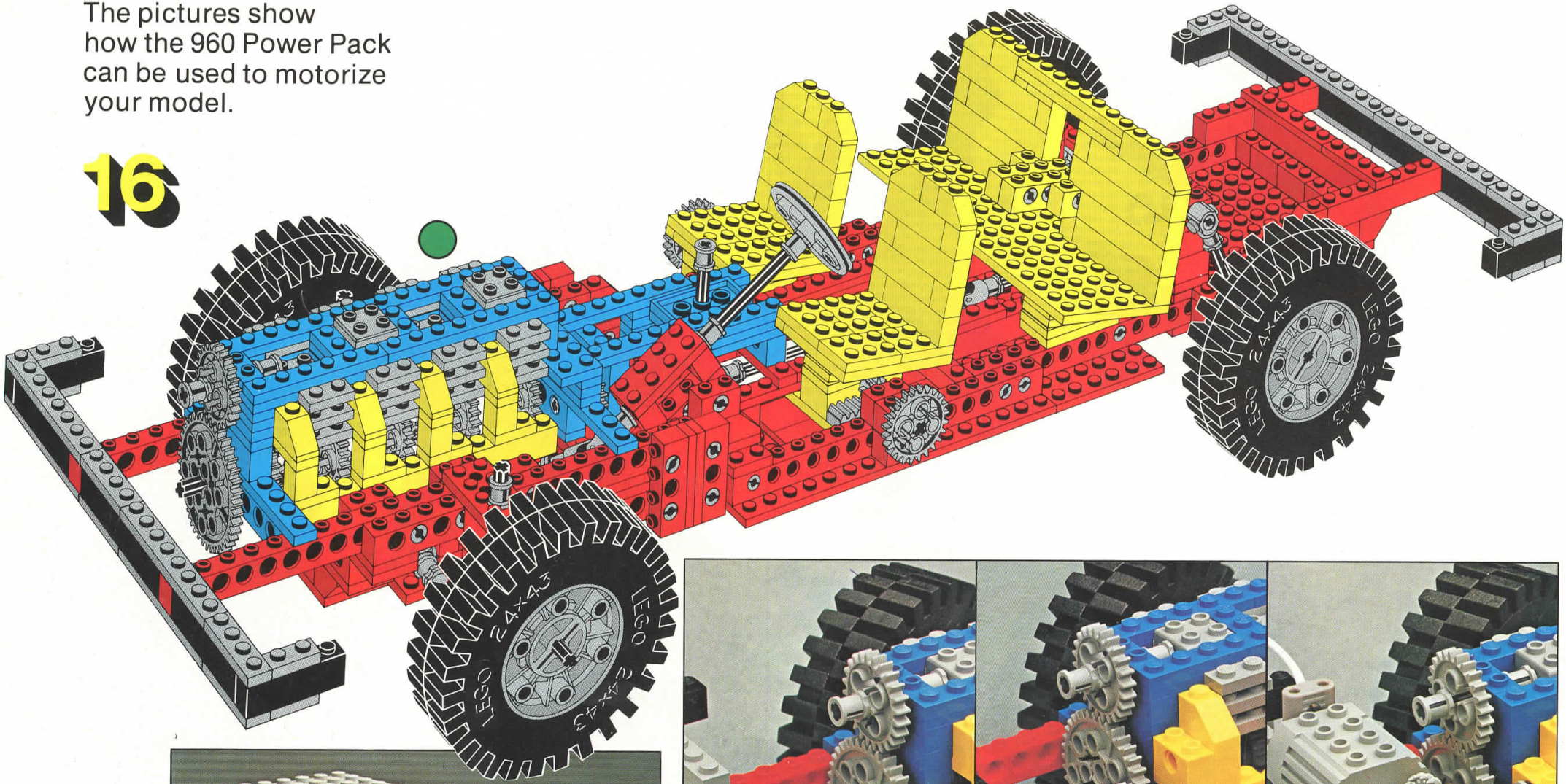
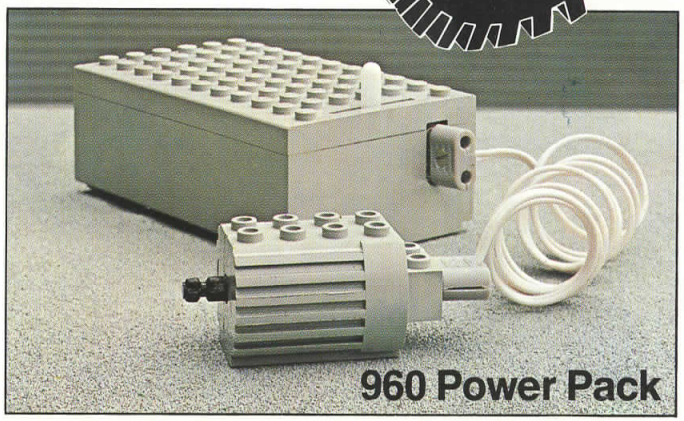


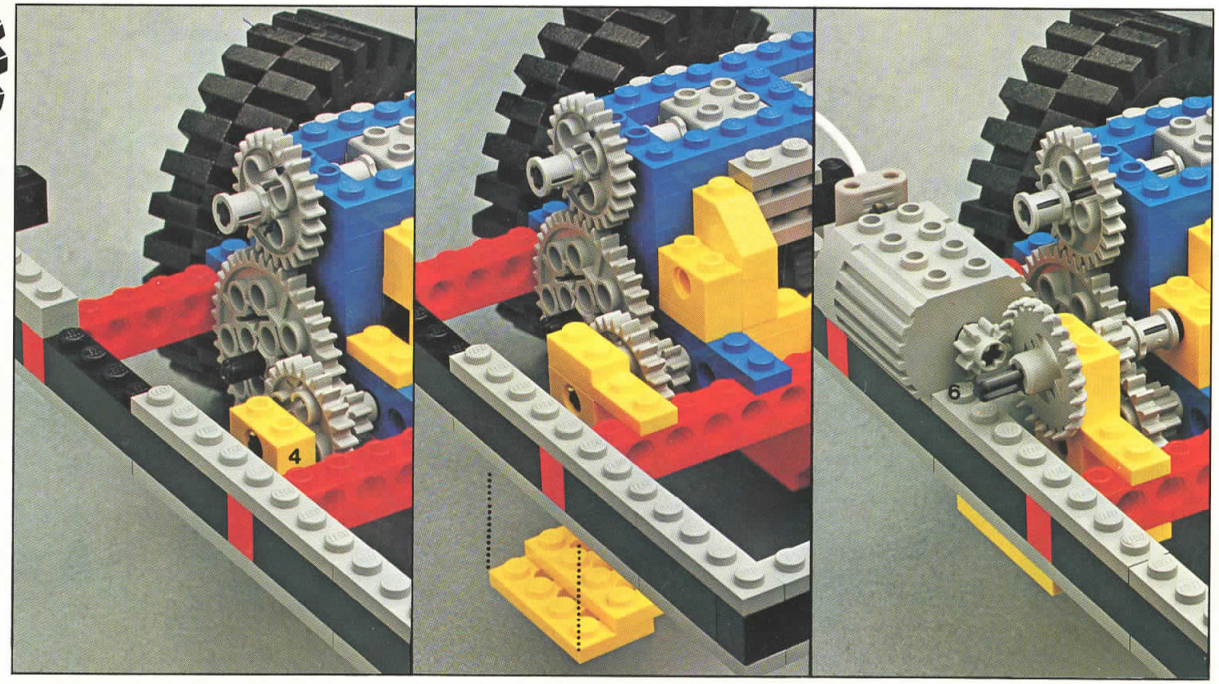
The pictures show how the 960 Power Pack can be used to motorize your model.

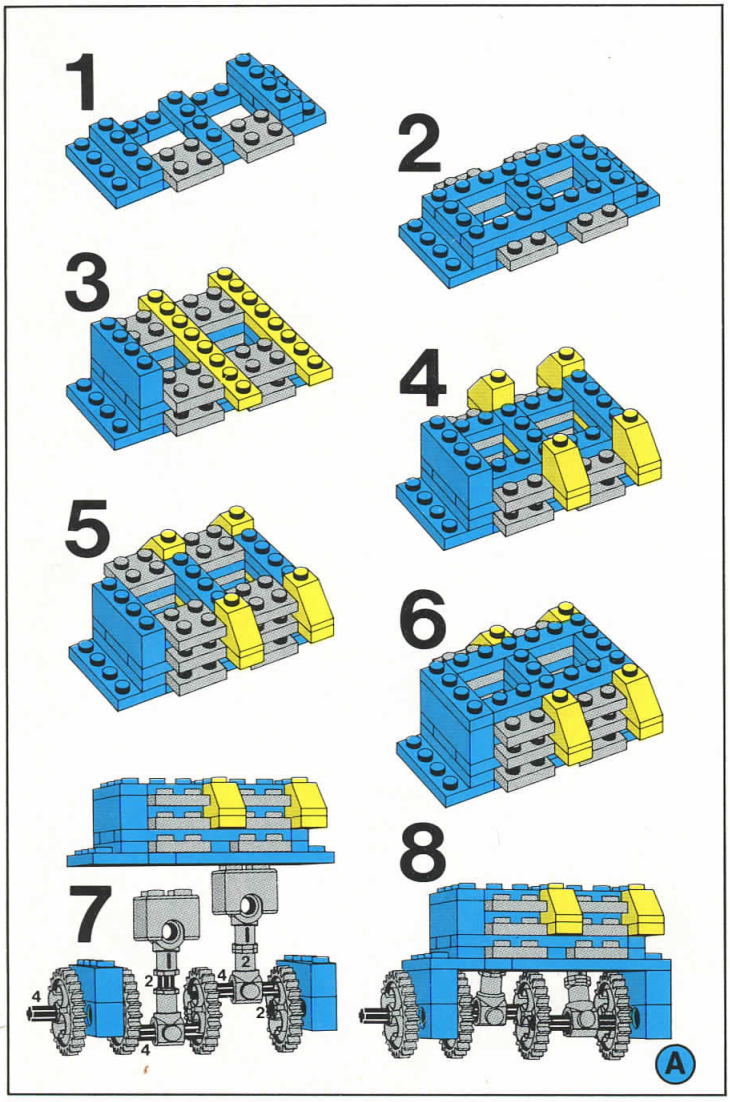
# 16



960 Power Pack

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3
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7
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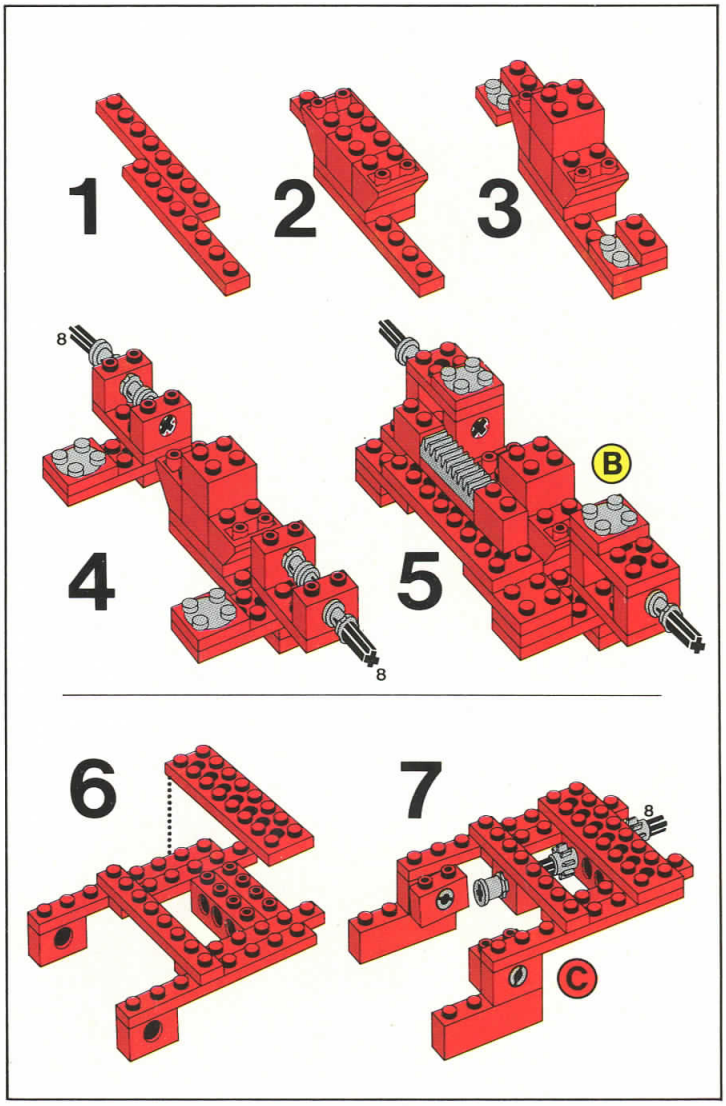
A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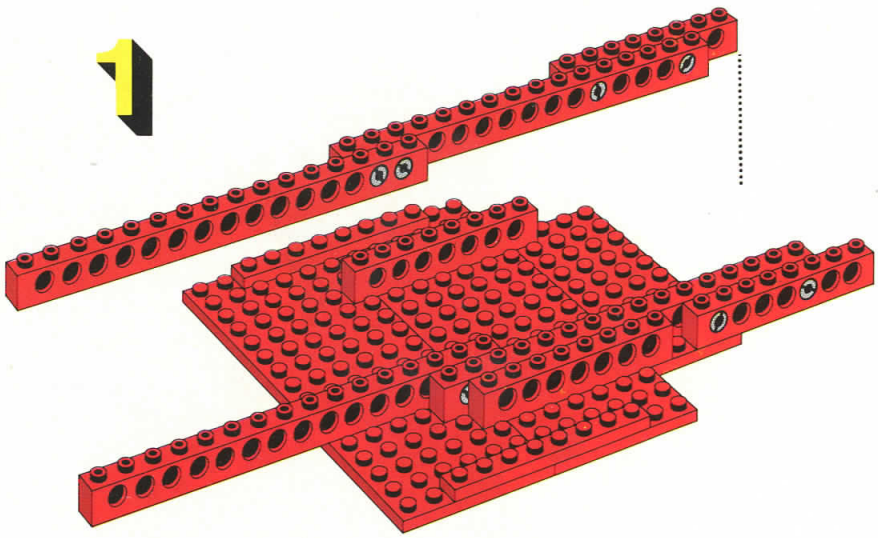
C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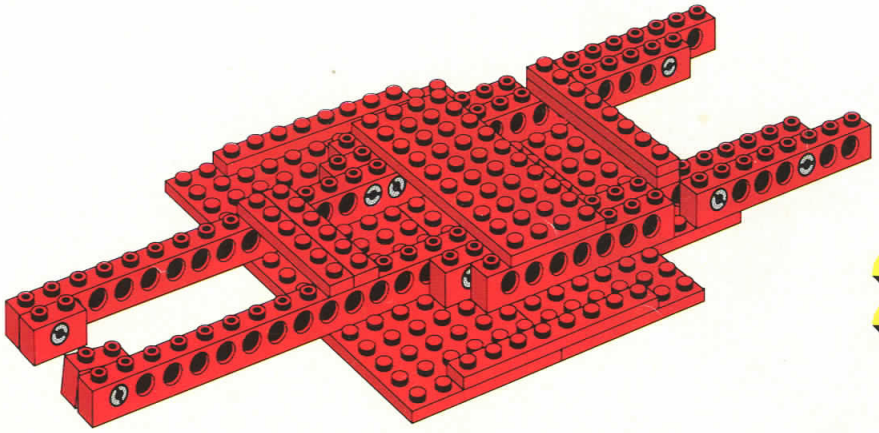
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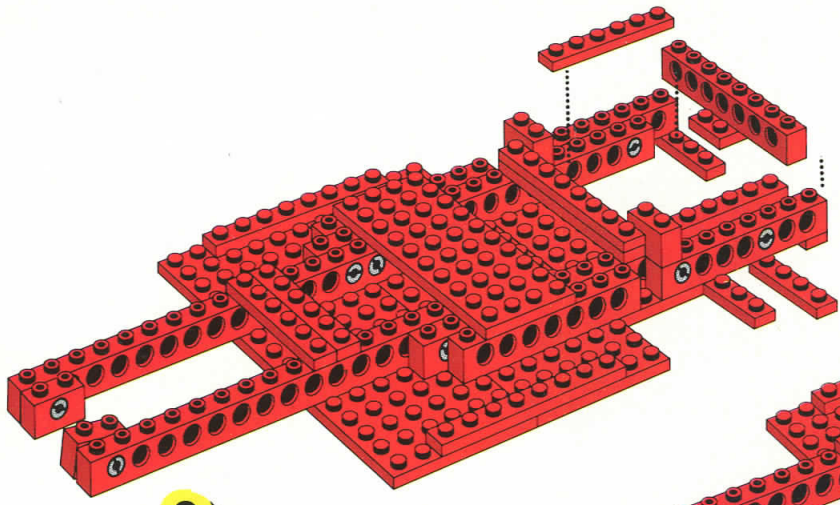

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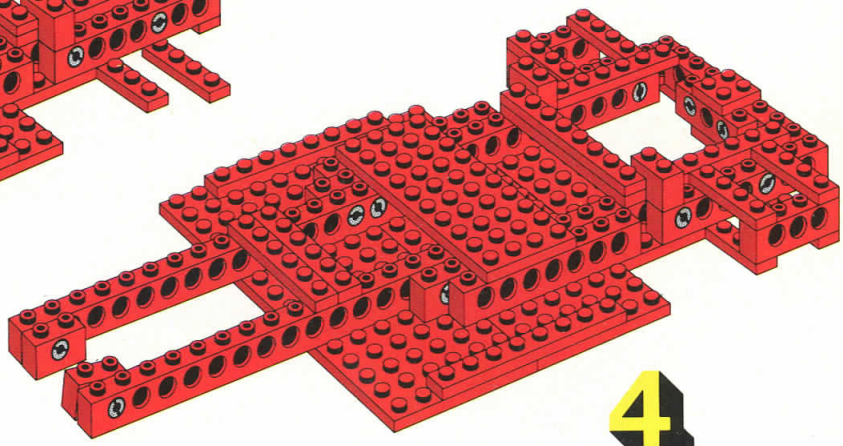

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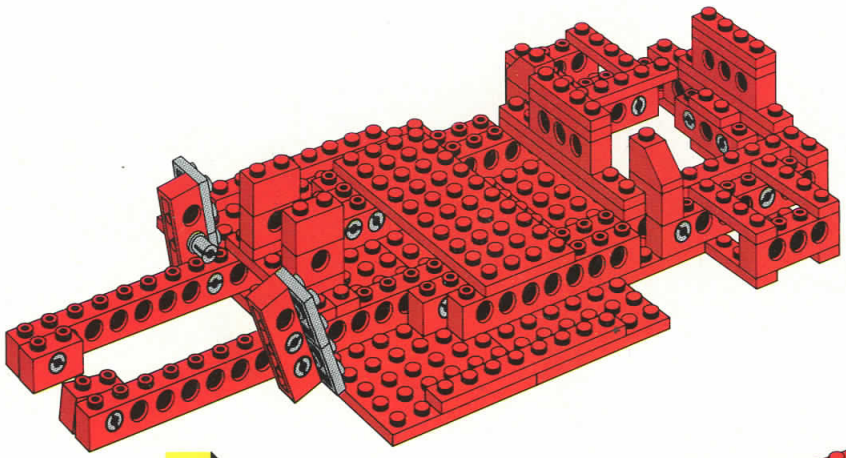

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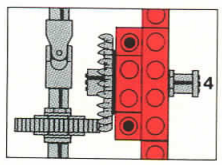


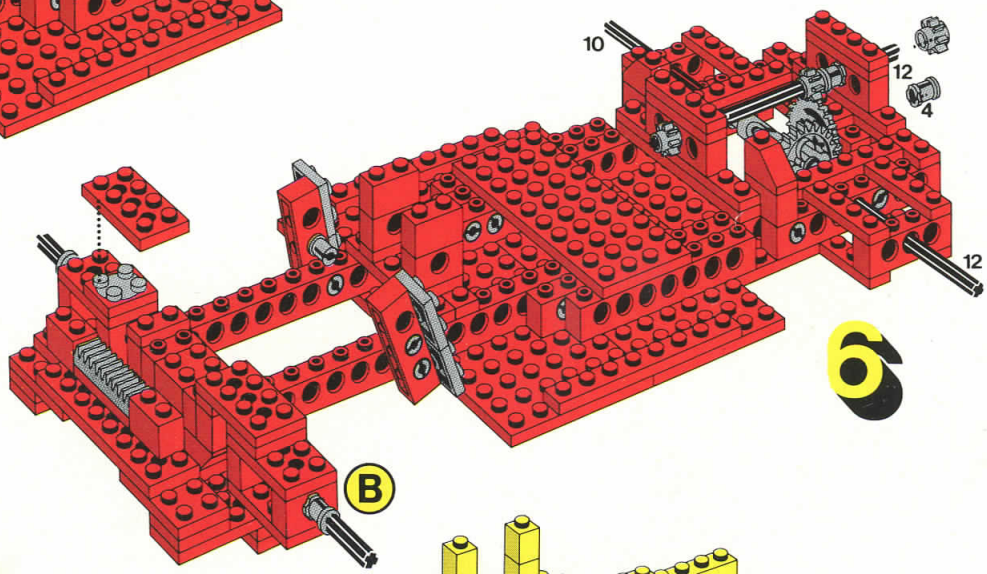


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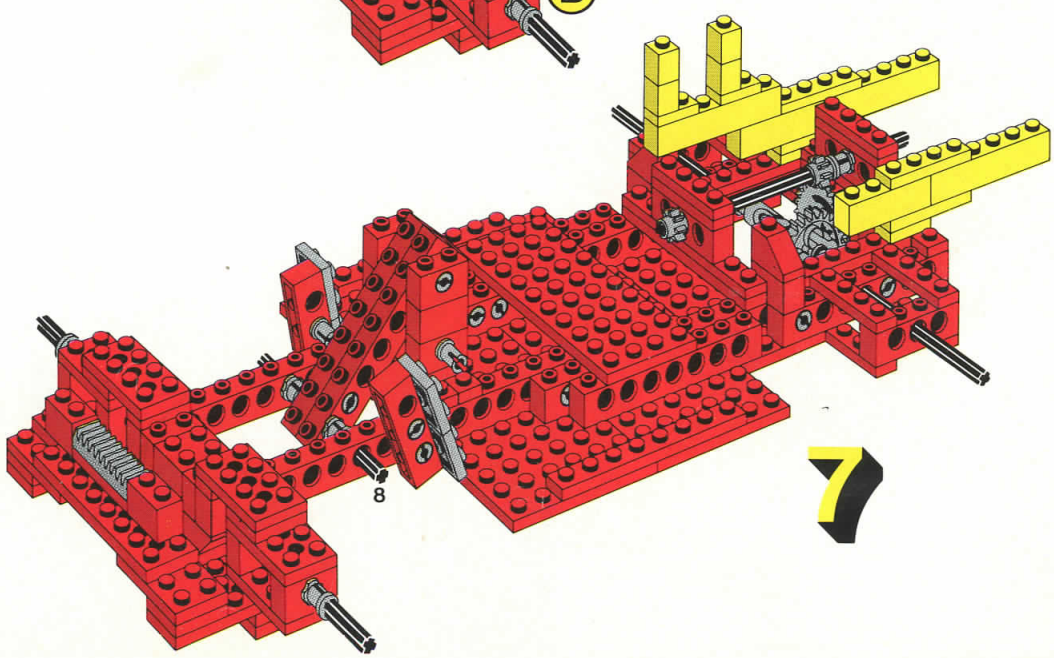


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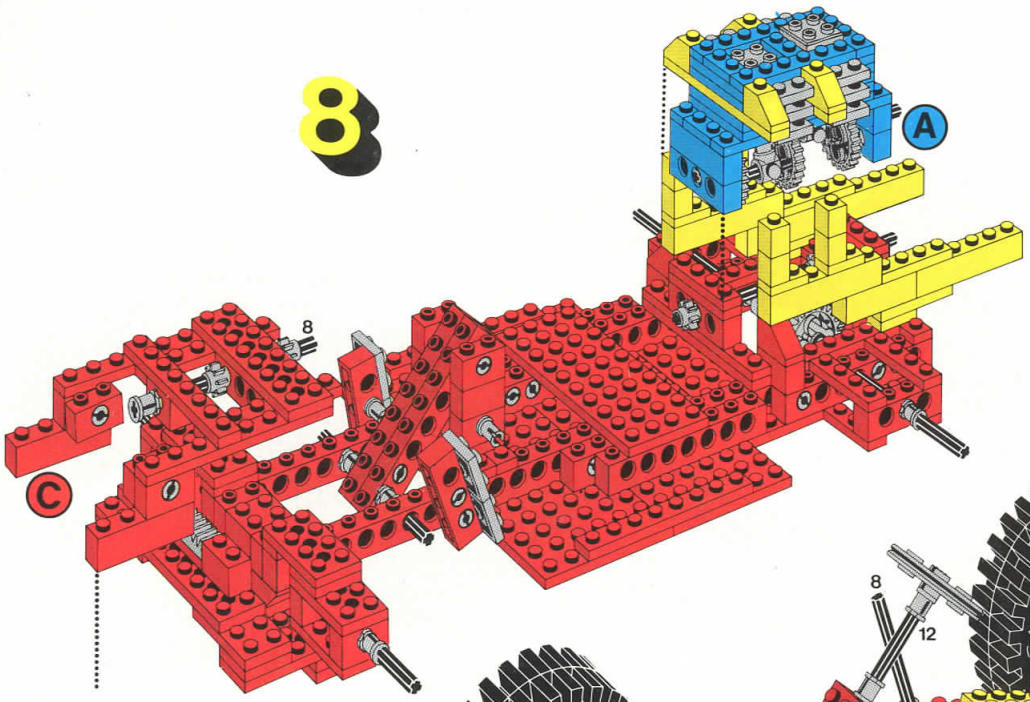


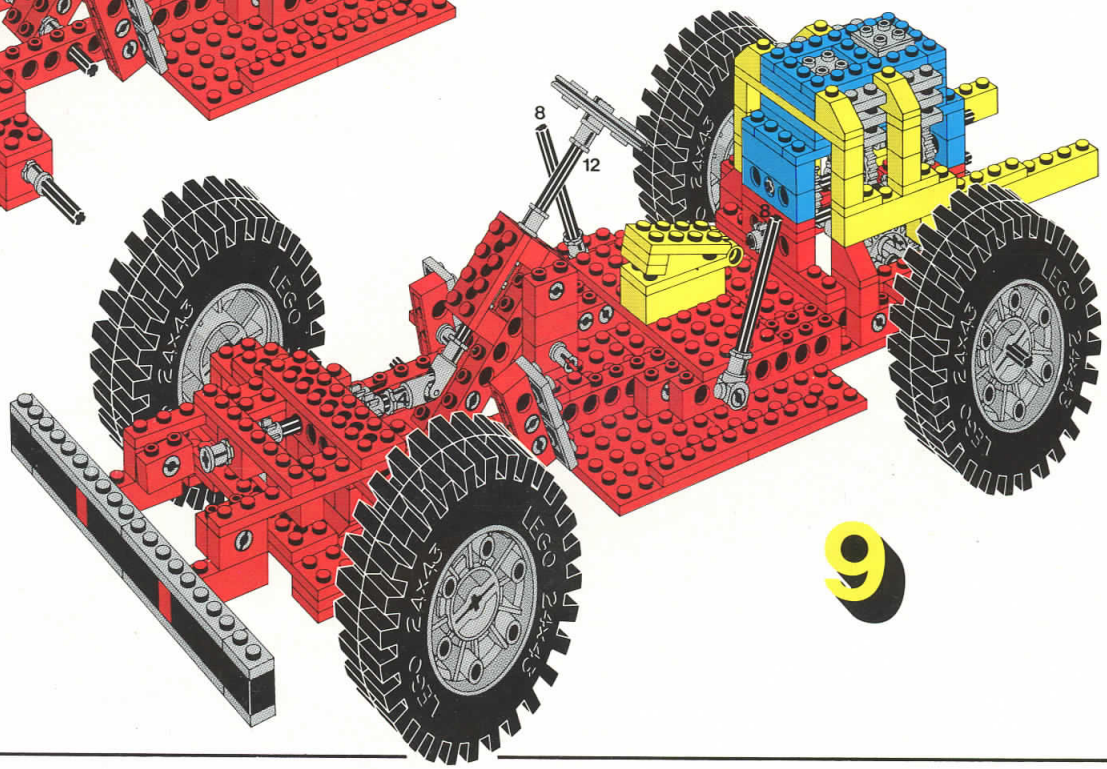


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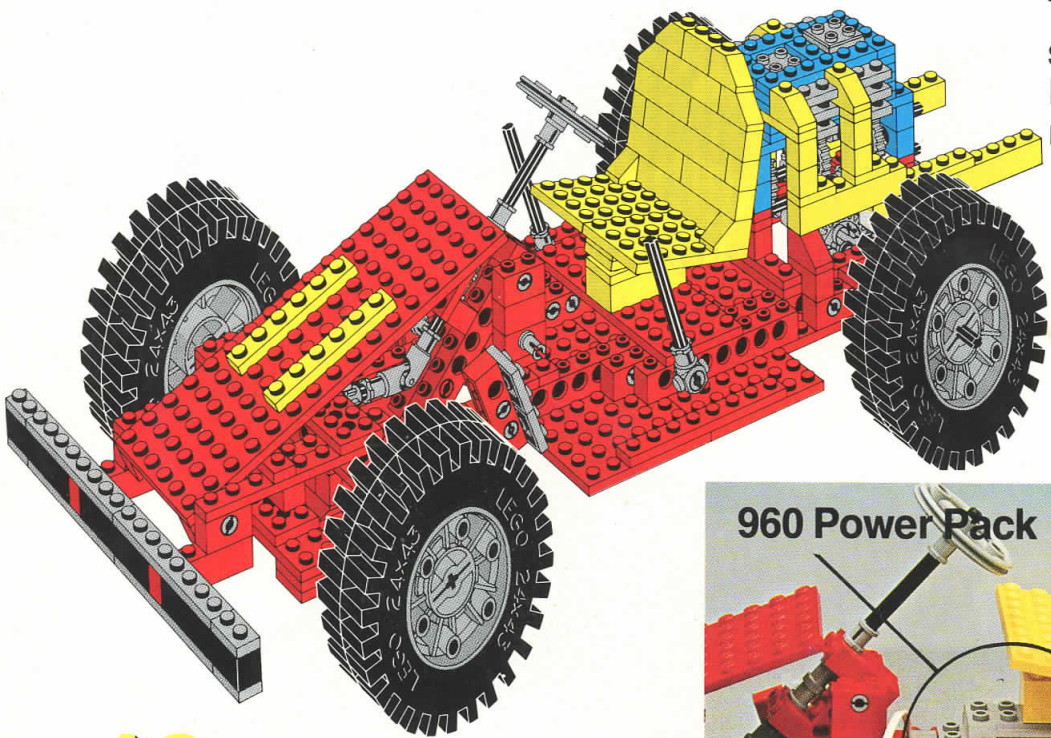
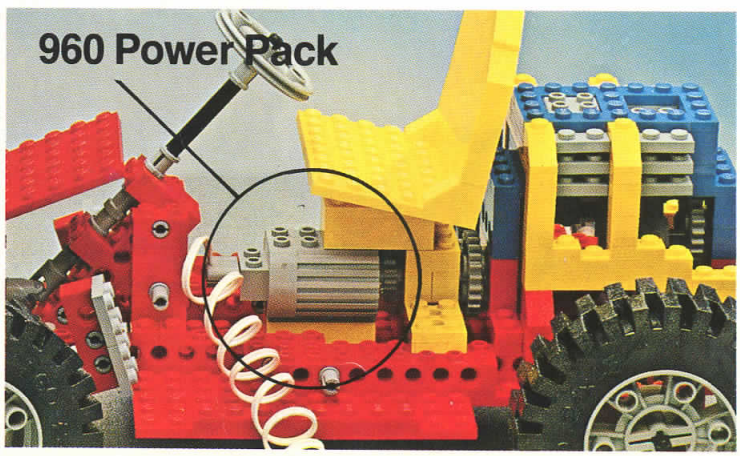
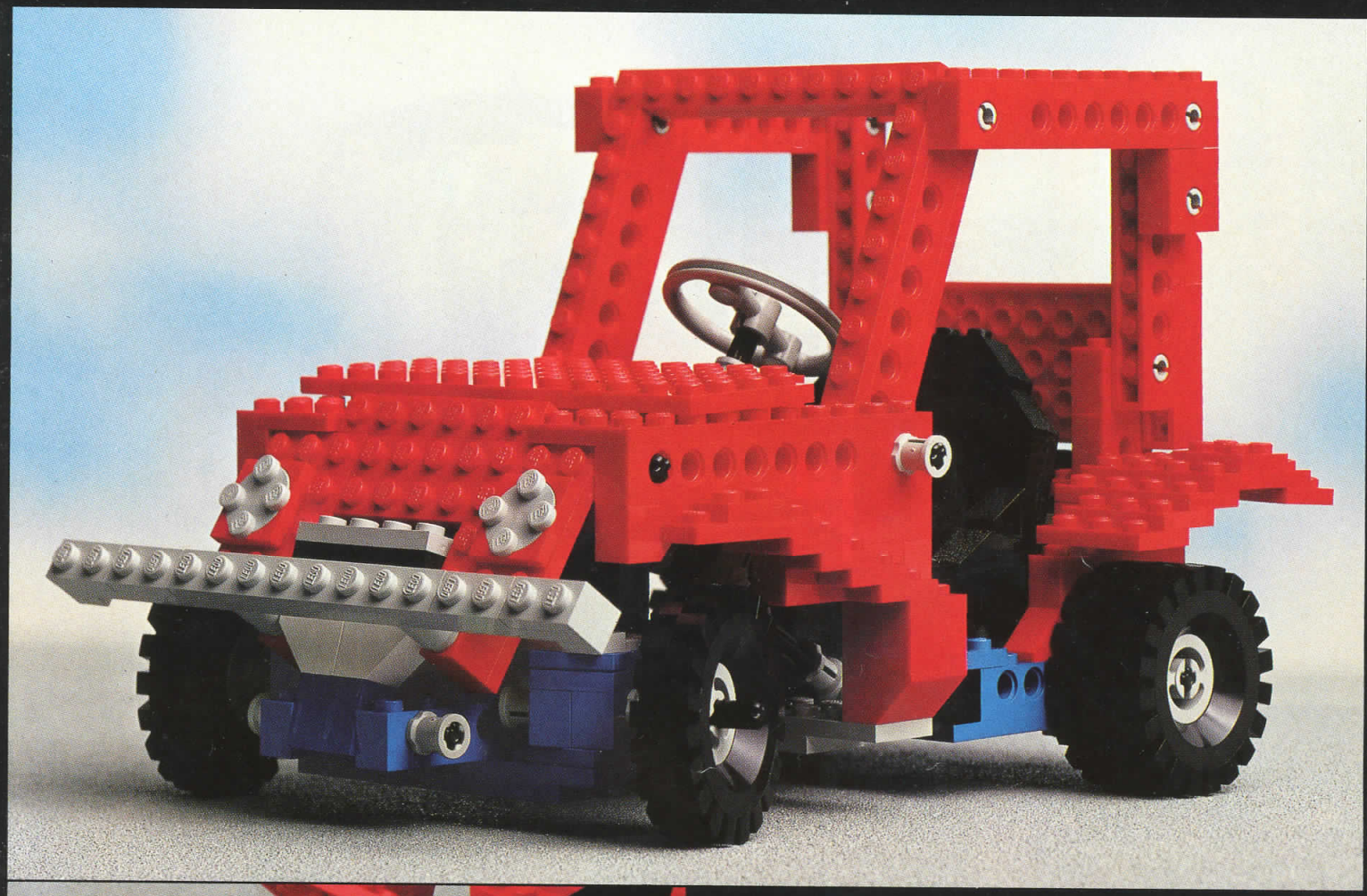


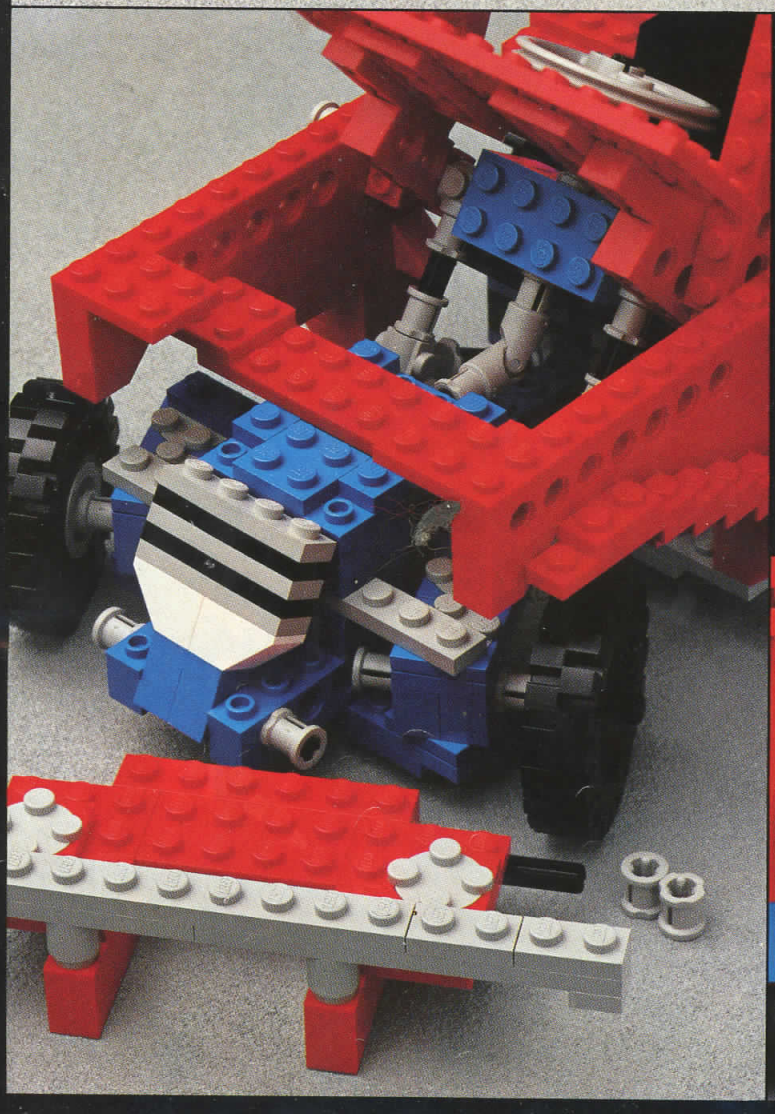
10

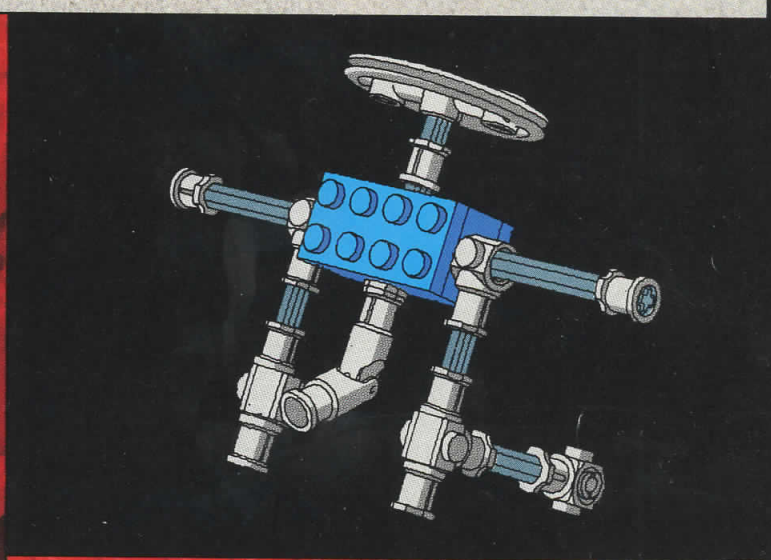
The pictures on this page show how the 960 Power Pack can be used to motorize your model.

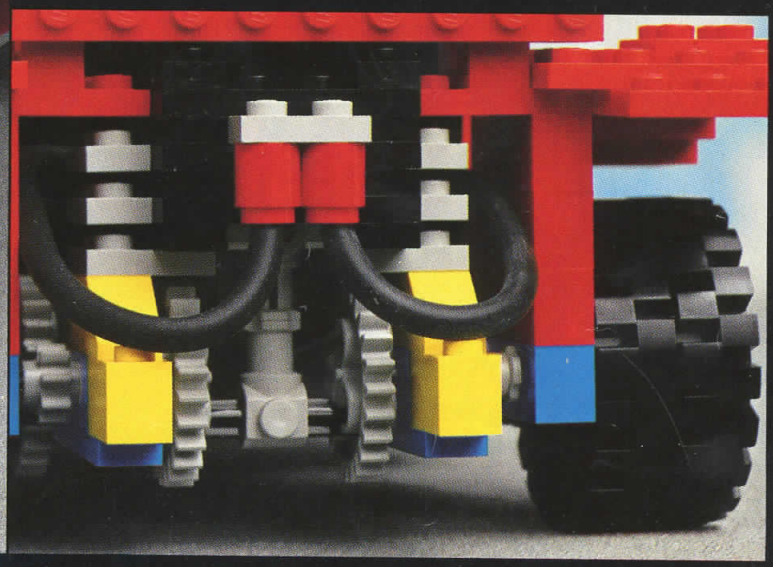


# 948+952

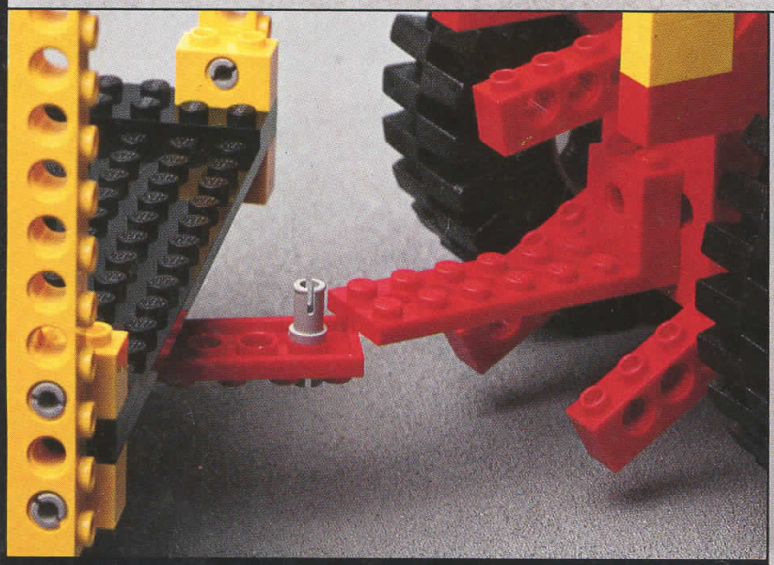


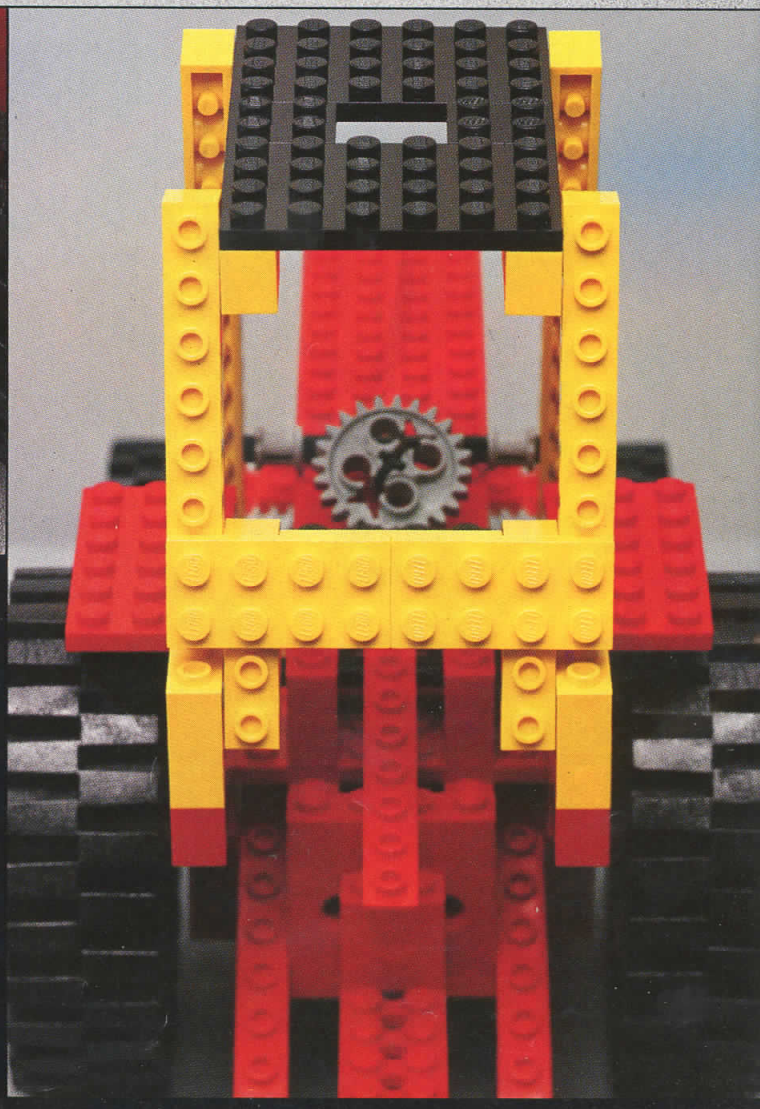


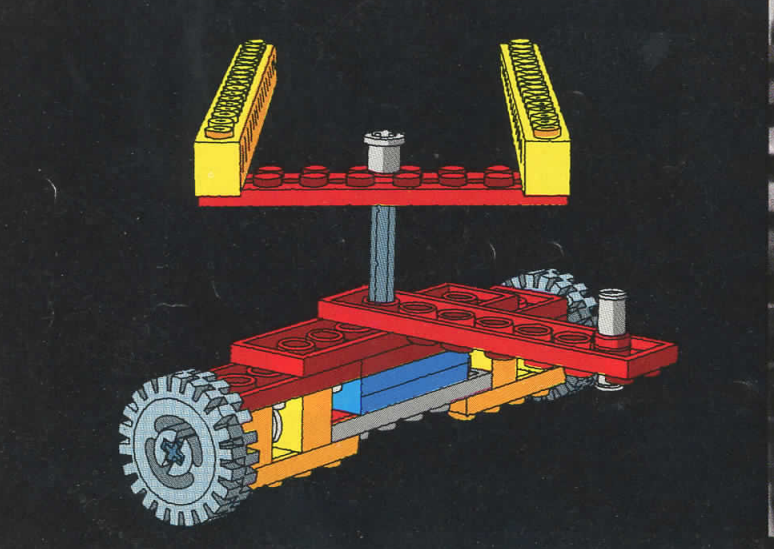




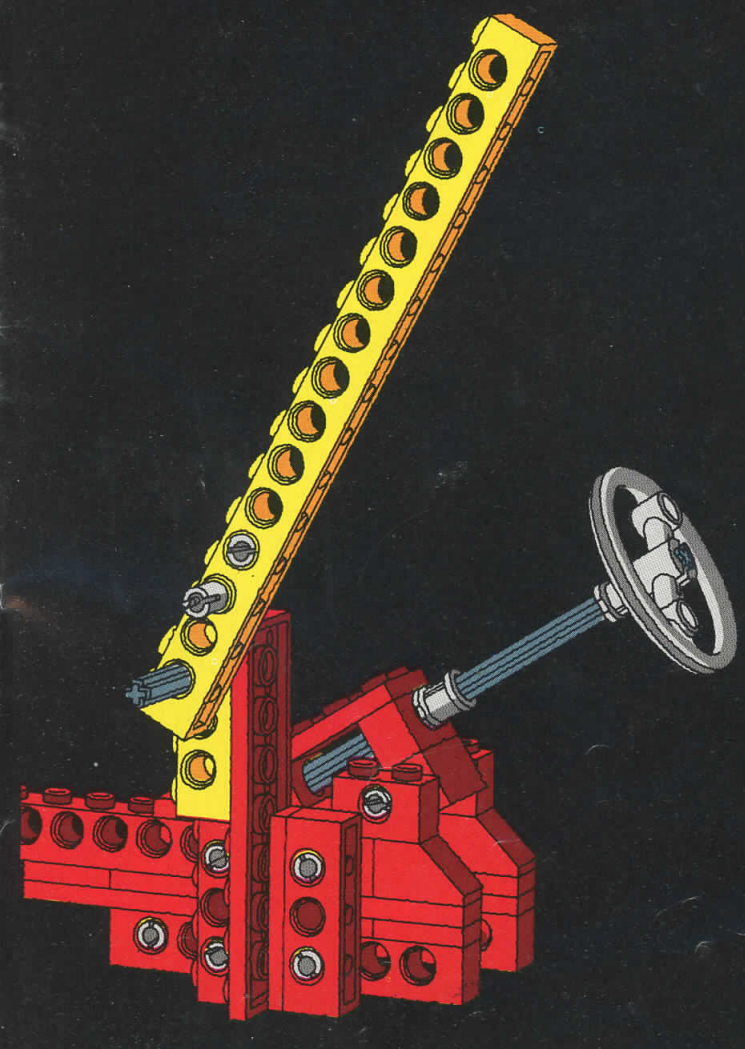
# 952+954

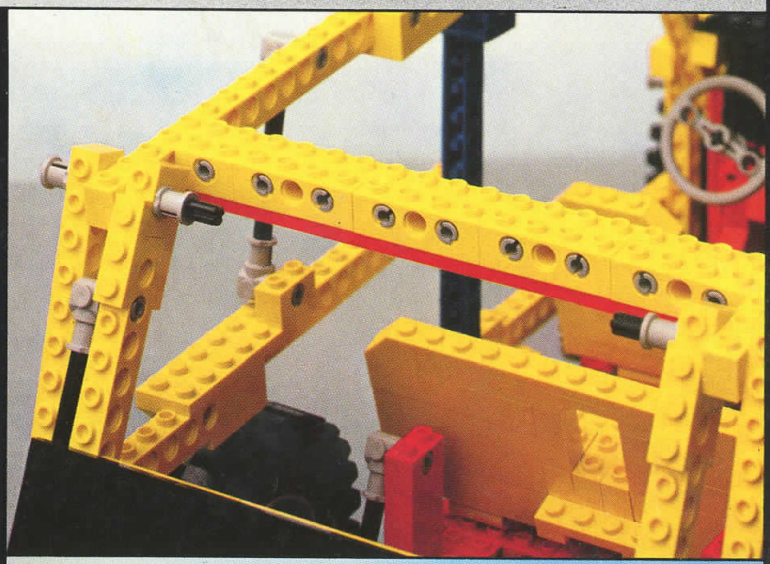


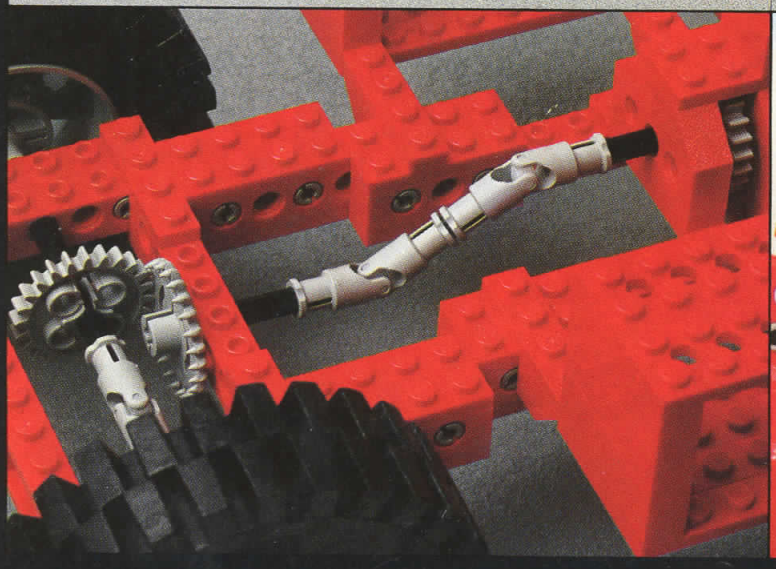


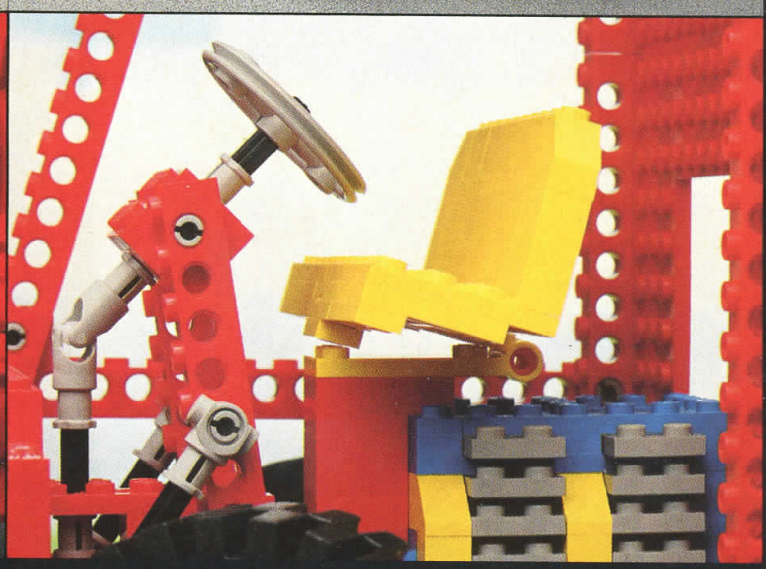


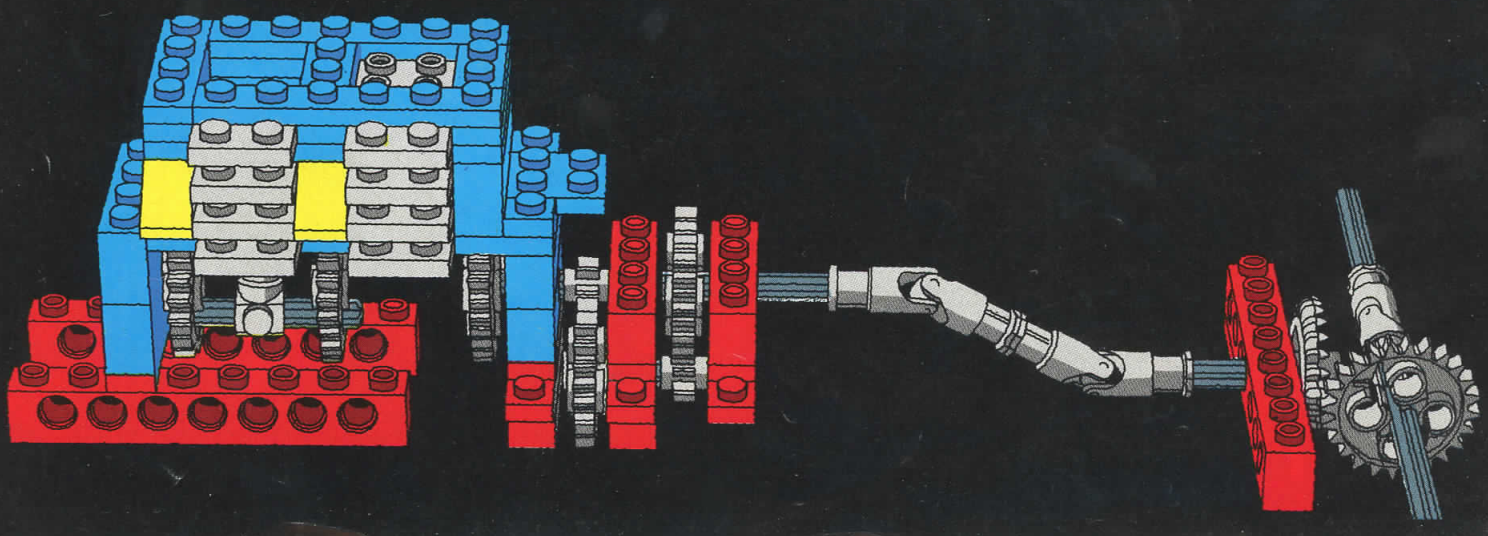
# 956+954+961

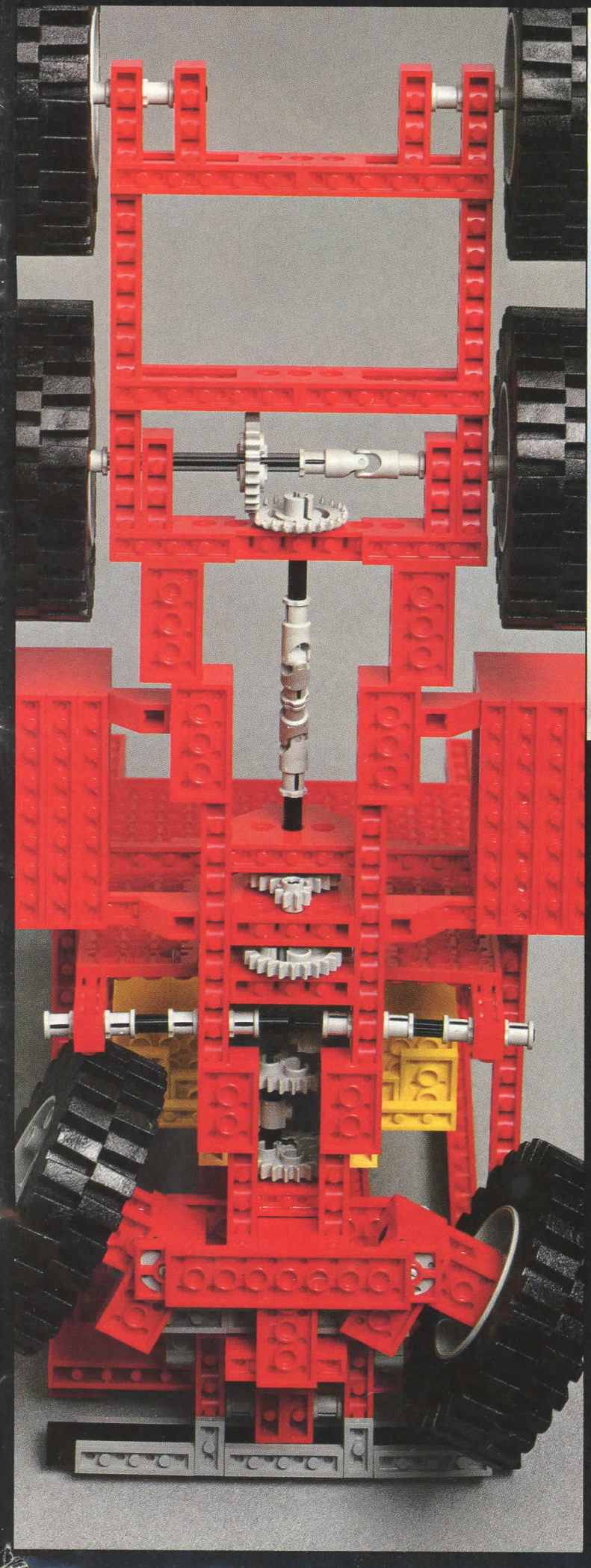


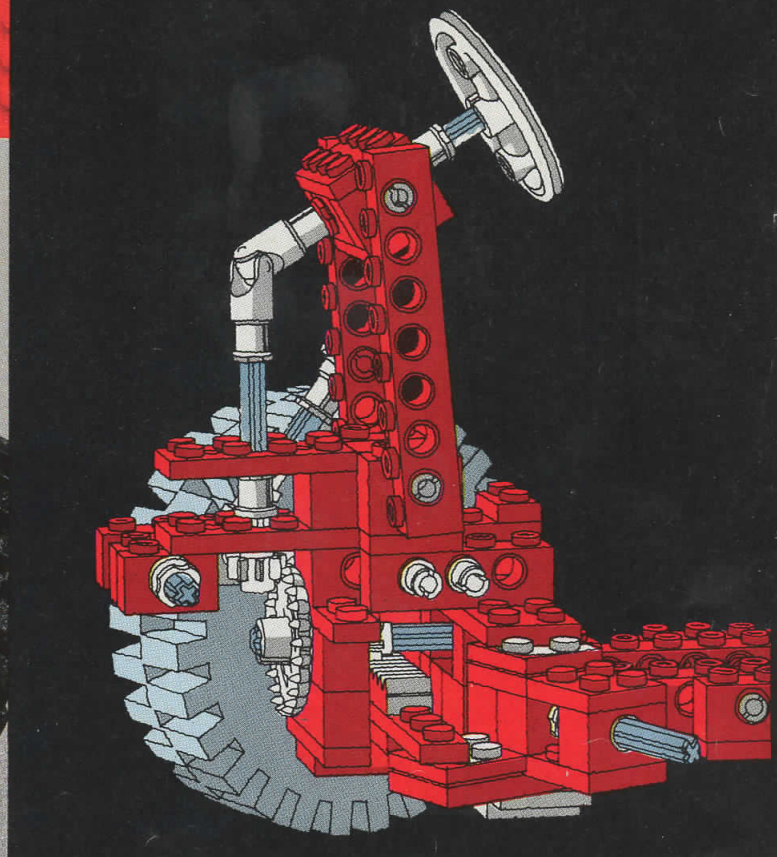


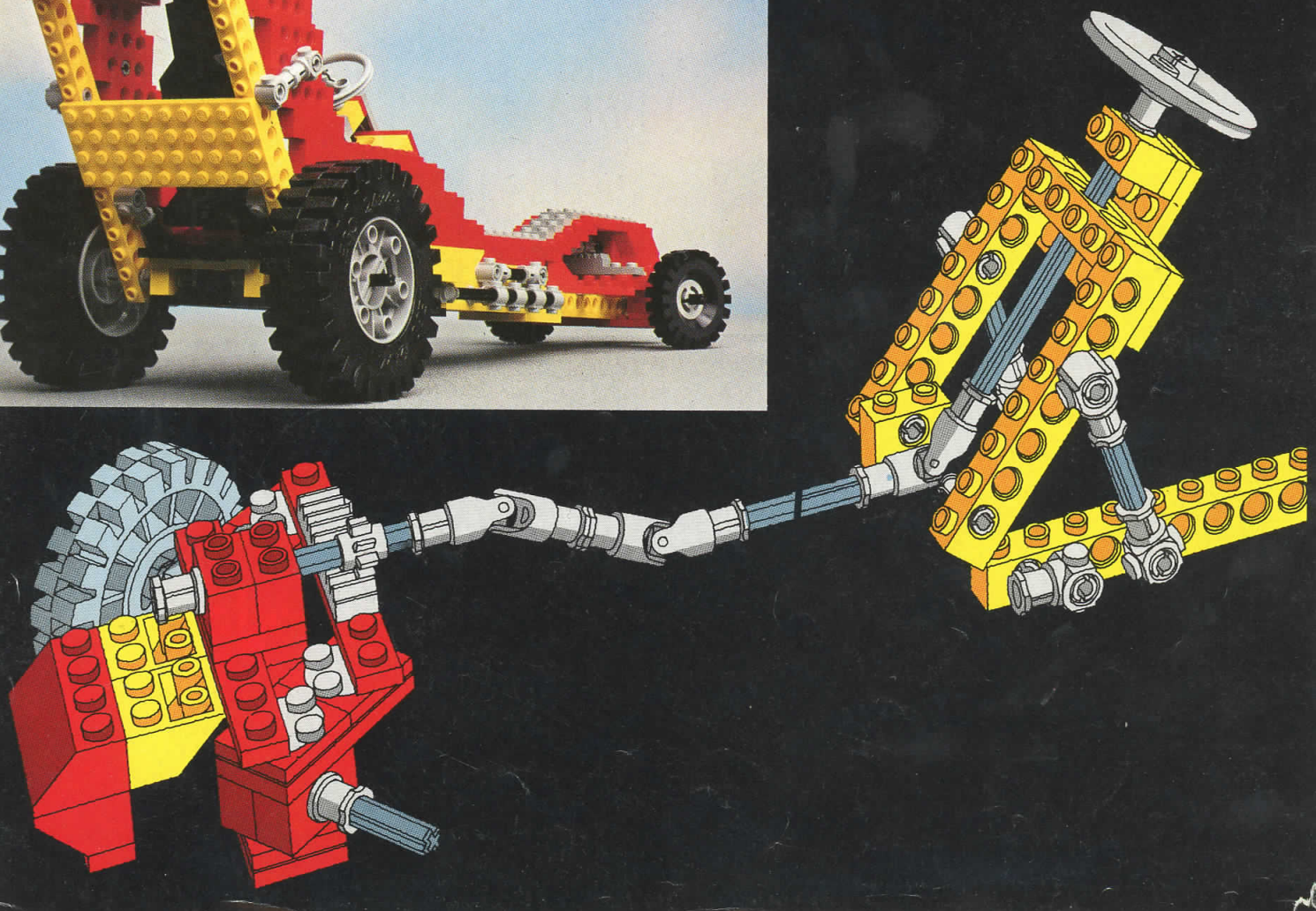


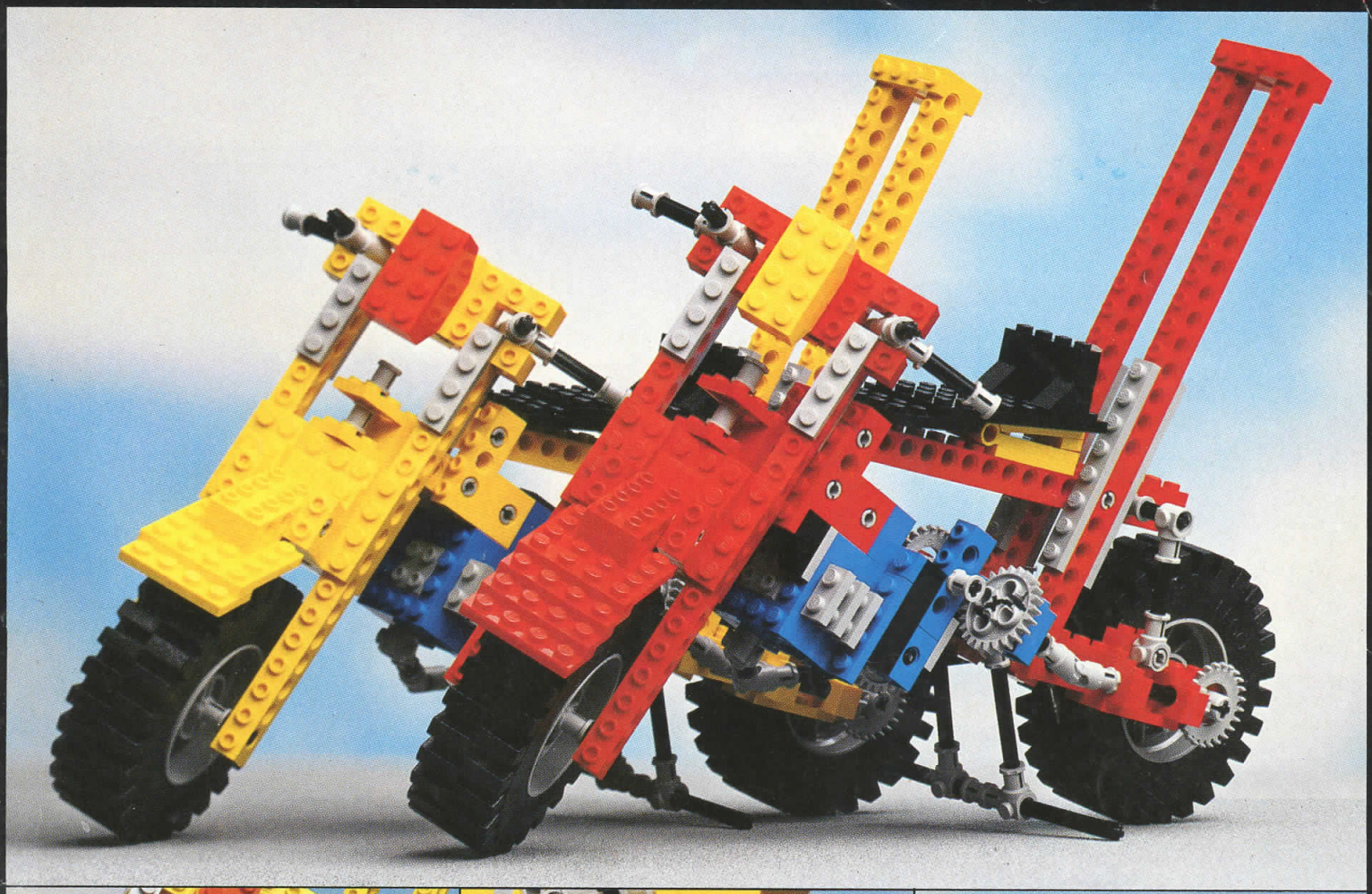


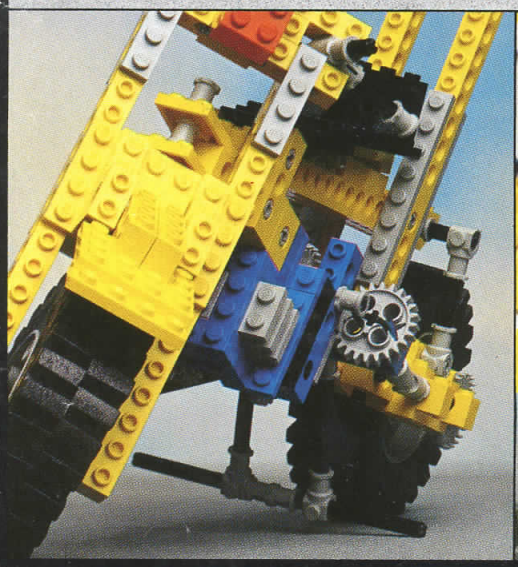


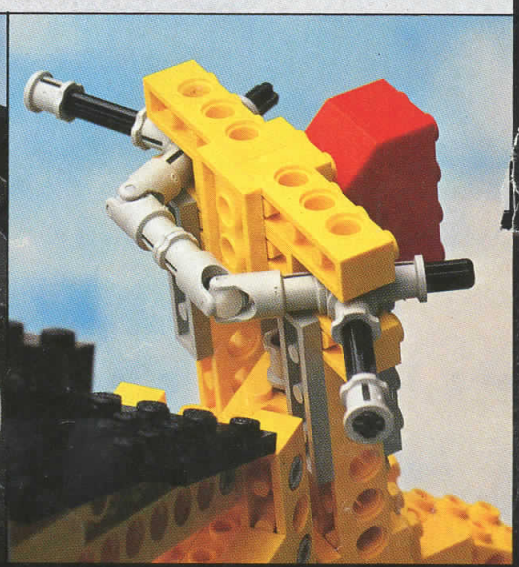


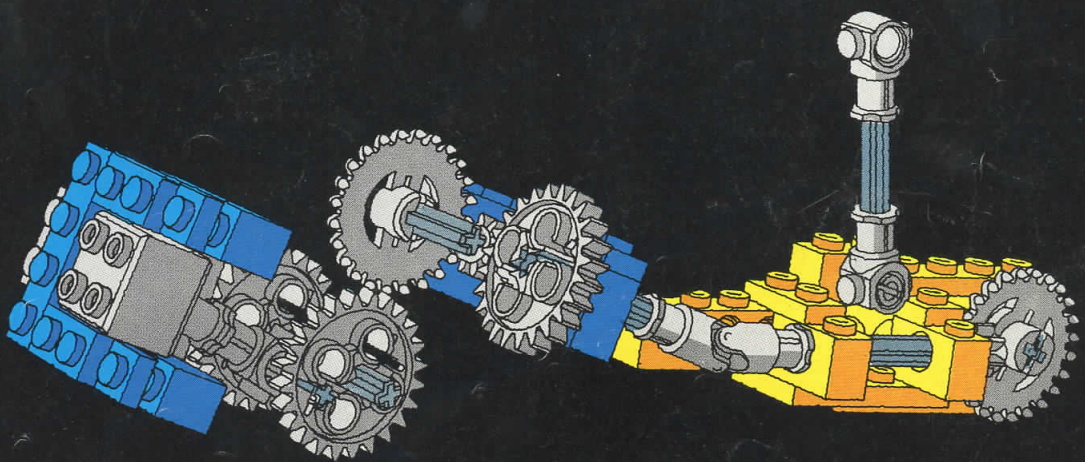


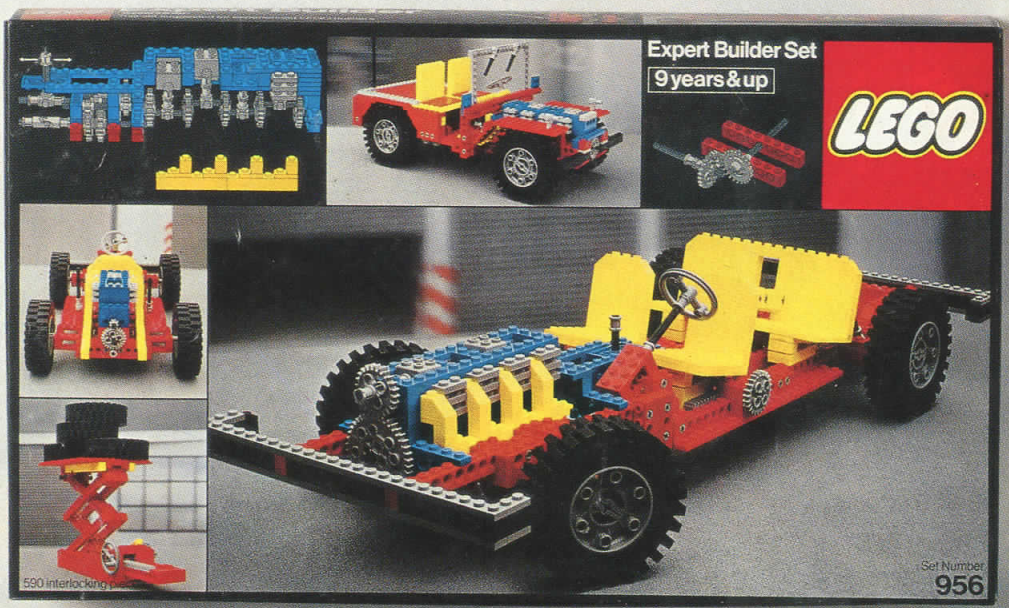


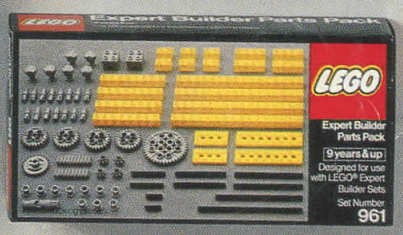






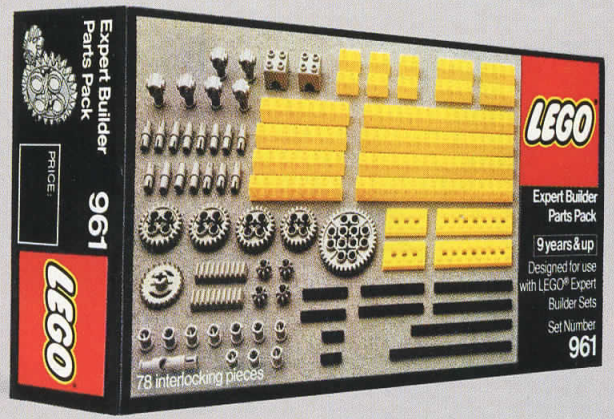







1978 LEGO System A/S

Printed in Germany by Mühlmeister & Johlen




## LEGO® Parts Pack 961

Once you have discovered the fascination of building with LEGO® Expert Builder Sets, you will want still more range and freedom for precision construction.

This supplementary set contains many of the new precision components including connector pegs and piston heads, gear wheels, a crown wheel, special girder beams, a universal joint, and lots more.

LEGO

# Expert Builder Sets... for experienced LEGO® builders 9 years & up

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# NEW! LEGO® Expert Builder Sets... All the precision and realism experts demand.

LEGO® Expert Builder Sets provide an exciting new category for experienced builders and collectors alike. Each set contains specific instructions to build several models, plus the unlimited challenge of new LEGO® building components.

There are many new components developed especially for LEGO® Expert Builder Sets. These new elements allow the builder to create models that closely resemble the real world with working pistons, gear wheels, universal joints and more. There are also new large wheels and a powerful, battery driven motor, as well as special girder-like beams. Yet they all fit together with regular LEGO® bricks to give your collection a whole new dimension.

With the new Expert Builder Sets, you can discover for yourself the operating principles of such things as car engines, steering mechanisms and helicopters. Working models of these and many more alternatives can be constructed with the basic Expert Builder Sets. There is no end to LEGO™.

## LEGO® Auto Chassis 956

Imagine building an auto chassis almost 2 feet long that has realistic working pistons, first and second gears, a complete steering system and adjustable seats. That's the satisfaction and challenge you will find in building this model from the detailed construction plans included. For the advanced builder with a real interest in how things work, LEGO® Expert Builder Set 956 is the answer.

With this Expert Builder Set, you can also construct many other action models including a jeep, dragster, truck and working model of a lathe.

## LEGO® Sky Copter 954

Learn all about the operating principles of a real helicopter as you construct this realistic model from the detailed construction plans. You'll find out that not only do the rotors revolve, but you can even adjust the pitch of the blades by a control lever – just like a pilot does to hover or move forward.

With this Expert Builder Set, you can also construct many other models including a biplane, sports plane, radar screen, mobile ladder and windmill.

## LEGO® Farm Tractor 952

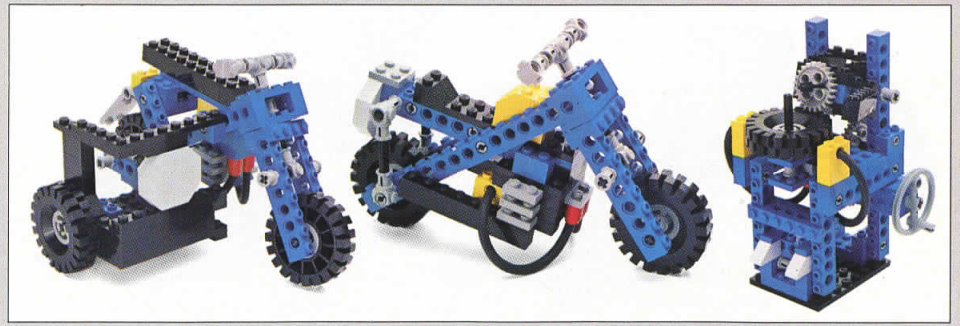
Tractors have to do many jobs and this versatile model is designed to meet all of the different needs of modern farming. You can build a variety of farm implements-plows, harrows, hay turners, and make them all operate by connecting them to the back axle. But it's not only the farming implements you can change, for the tractor itself can be modified into new and different things. For the ingenious model builder, there's always a new challenge.

With this Expert Builder Set, you can also construct many other models including a steam roller, combine harvester, steam hammer and power saw.

## LEGO® Go-Cart 948

Build and live the excitement of Go-Cart racing with this stripped-down functional model featuring a 2-stroke engine, and a rack and pinion steering system found on the most up-to-date racing machines.

With this Expert Builder Set, you can also construct many other models including two motorcycles, (one with a side car) and a racing shop tire changer.



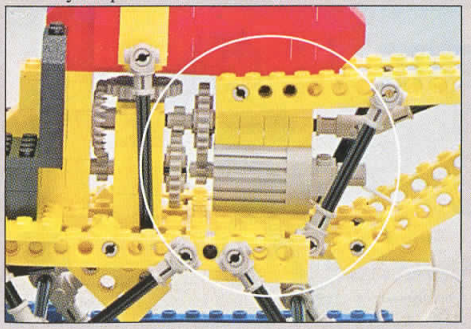
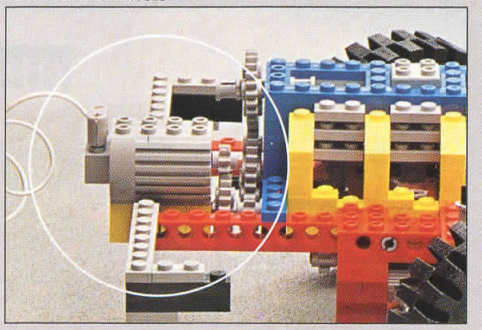
## LEGO® Power Pack 960

Build this versatile 4.5 volt motor into your models for added realism and excitement. The new unit is much smaller than the regular LEGO® motor, and provides many more building possibilities.

The technical information leaflet supplied with this supplementary set explains how the motor operates and provides detailed illustrations on how to use the motor to transfer power through the different types of gears included.

The pictures below illustrate how the Power Pack can be used to motorize the 954 Sky Copter and the 956 Auto Chassis.

954 Sky Copter



956 Auto Chassis